

GenCore version 5.1.8
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OW nucleic - nucleic search, using sw model

Run on: May 11, 2006, 03:15:27 ; Search time 1774 Seconds
(without alignment) 11728.957 Million cell updates/sec

Title: US-10-760-320A-102

Perfect score: 3122
Sequence: 1 actagagtggtgggttagcgc.....acagagcaagactctctc 3122

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapept 60.0

Searched: 4996997 seqs, 3332346308 residues

Word size : 1

Total number of hits satisfying chosen parameters: 9993364

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 500 summaries

Database :

N_GeneSeq_21:*

1: geneSeq1980s:*
2: geneSeq1990s:*
3: geneSeq2000s:*
4: geneSeq2001as:*
5: geneSeq2001bs:*
6: geneSeq2002as:*
7: geneSeq2002bs:*
8: geneSeq2003as:*
9: geneSeq2003bs:*
10: geneSeq2003cs:*
11: geneSeq2003ds:*
12: geneSeq2004as:*
13: geneSeq2004bs:*
14: geneSeq2005s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3122	100.0	3122	12 ADO67462	Add62941 Novel hum
2	1952	62.5	2327	13 ADR07462	Adt07462 Pull leng
3	1009	32.3	1009	4 AAK83424	Aak83424 Human Imm
4	1009	32.3	1009	4 AAK83423	Aak83423 Human Imm
5	907	29.1	1009	4 AAK83422	Aak83422 Human Imm
6	748	24.0	850	5 AAS93728	Aas93728 DNA encod
7	657	21.0	708	12 ACH87504	Aach87504 Human gen
8	524	16.8	524	12 ACH7793	Aach7793 Human gen
9	504	16.1	973	4 AAK62785	Aak62785 Human Imm
10	471	15.1	476	4 AAK83430	Aak83430 Human Imm
11	427	13.7	476	4 AAK83427	Aak83427 Human Imm
12	427	13.7	476	4 AAK83426	Aak83426 Human Imm
13	241	7.7	1349	5 AAS72508	Aas72508 DNA encod
14	60	1.9	60	6 AAS50582	Aas50582 Human gpl
15	53	1.7	175737	6 AAK83571	Aak83571 Human gpl
16	53	1.7	175737	10 ADL13596	Adl13596 Osteoarth
17	53	1.7	175737	12 ADQ18934	Adq18934 Human sec
18	52	1.7	381	3 AAC03795	Aac03795 Human sec
19	52	1.7	1437	5 AAS78337	Aas78337 DNA encod

c	20	1.7	9620	4 AAL06207	Aal06207 Human rep
c	21	1.7	92339	6 ADF13364	Adf13364 92Kb gene
c	22	1.7	130320	10 ADP11613	Adp11613 Human scl
c	23	1.7	220756	12 ADG66300	Adg66300 Human SKR
c	24	1.7	233380	11 ACN44282	Acn44282 Human gen
c	25	1.6	832	3 AAF21833	Aaf21833 Human bre
c	26	1.6	2791	5 AAS93730	Aas93730 DNA encod
c	27	1.6	23139	14 AEA61112	Aea61112 Human SLC
c	28	1.6	30393	4 AAK67239	Aak67239 Human Imm
c	29	1.6	68200	14 ADX80722	Adx80722 Human man
c	30	1.6	215221	11 ACN44754	Acn44754 Human gen
c	31	1.6	255	3 AAC24464	Aac24464 Human sec
c	32	1.6	288	12 ADN41748	Adn41748 Novel hum
c	33	1.6	301	4 AAK84092	Aak84092 Human Imm
c	34	1.6	432	5 AAS93725	Aas93725 DNA encod
c	35	1.6	1001	13 ADQ81170	Adq81170 Human phe
c	36	1.6	2407	6 AAS58182	Aas58182 CDNA encd
c	37	1.6	8705	5 ABA82624	Abas82624 Human HBM
c	38	1.6	8705	8 ACC45365	Acc45365 Human HBM
c	39	1.6	8705	10 ADB98065	Adb98065 HBW-relat
c	40	1.6	8705	10 ADB82434	Adb82434 Human DNA
c	41	1.6	8705	13 ADR16928	Adr16928 BAC clone
c	42	1.6	8705	13 ADR47579	Adr47579 BAC clone
c	43	1.6	8705	14 AEB69308	Aeb69308 Human Hlg
c	44	1.6	10396	4 AAK86119	Aak86119 Human Imm
c	45	1.6	11234	5 ABA20857	Abas20857 Human ner
c	46	1.6	13026	4 AAK80184	Aak80184 Human Imm
c	47	1.6	13026	4 AAK80185	Aak80185 Human Imm
c	48	1.6	31474	4 AAL05461	Aal05461 Human rep
c	49	1.6	31474	4 ABL98314	AbL98314 Human tes
c	50	1.6	32189	5 AAS30115	Aas30115 Human lun
c	51	1.6	32189	10 ADB33452	Adb33452 Human nov
c	52	1.6	32193	4 AAD16595	Aad16595 Human nov
c	53	1.6	32193	4 AAL36258	Aal36258 Human mus
c	54	1.6	32193	8 AAB59246	Abas59246 CDNA encd
c	55	1.6	32193	10 ADG62943	Adg62943 Genomic D
c	56	1.6	32193	12 ADJ29996	Adj29996 Human mus
c	57	1.6	32221	5 AAS30113	Aas30113 Human lun
c	58	1.6	32221	10 ADB33450	Adb33450 Human nov
c	59	1.6	36305	6 AAK22783	Aak22783 Human hlg
c	60	1.6	66973	11 ACN44230	Acn44230 Human gen
c	61	1.6	156843	11 ACN44786	Acn44786 Human gen
c	62	1.6	276820	11 ADP75188	Adp75188 Human ADA
c	63	1.6	95	4 AAK77204	Aak77204 Human Imm
c	64	1.6	95	4 AAK77203	Aak77203 Human Imm
c	65	1.6	272	4 AAK86736	Aak86736 Human Imm
c	66	1.6	281	4 AAK86737	Aak86737 Human Imm
c	67	1.6	21477	4 AAK66626	Aak66626 Human Imm
c	68	1.6	85920	14 AD213418	Ad213418 Human can
c	69	1.6	243428	12 ADP51132	Adp51132 Human P-R
c	70	1.5	4316	4 AAK82458	Aak82458 Human Imm
c	71	1.5	4316	4 AAK82461	Aak82461 Human Imm
c	72	1.5	4317	4 AAK82456	Aak82456 Human Imm
c	73	1.5	52242	9 ADA02666	Ada02666 Human MDM
c	74	1.5	52242	10 ADP87240	Adp87240 Human MDM
c	75	1.5	53779	14 AEA61175	Aea61175 Human ENT
c	76	1.5	53779	14 AEA61175	Aea61175 Human ENT
c	77	1.5	181684	11 ACN44374	Acn44374 Human gen
c	78	1.5	440	5 ABEV16331	Abev16331 Human pro
c	79	1.5	516	5 ABEV46129	Abv46129 Human pro
c	80	1.5	125515	10 ADL13941	Adl13941 Osteoarth
c	81	1.5	380	14 ADM06065	Adm06065 Human gen
c	82	1.5	405	6 ABL83398	AbL83398 Human ova
c	83	1.5	458	5 ADL43370	Adl43370 Human ova
c	84	1.5	497	5 ABEV60535	Abev60535 Human ova
c	85	1.5	2537	4 AAH18284	Aah18284 Human CDN
c	86	1.5	6530	14 ADY15647	Ady15647 DNA encod
c	87	1.5	7001	10 ACC82887	Acc82887 Human thyl
c	88	1.5	13409	4 AAL06913	Aal06913 Human rep
c	89	1.5	13409	4 ABA08135	Abas08135 Human ova
c	90	1.5	18501	4 ABR43029	AbR43029 Genomic s
c	91	1.5	18501	9 ADB61185	Adb61185 Connectiv
c	92	1.5	18501	10 ADC21019	Adc21019 Human sec

C 93	46	1.5	18501	10	ABT17021	Abt17021 Human sec	166	45	1.4	65277	13	ABD32902	Abd32902 Human can
C 94	46	1.5	18501	10	ABZ68161	Abz68161 Human sec	C 167	45	1.4	73395	11	ACN43986	Acn43986 Human gen
C 95	46	1.5	25001	12	AD181379	Ad181379 Human p2x	C 168	45	1.4	78539	8	ACA64942	Acac64942 Human FRA
C 96	46	1.5	28616	12	ADH36221	Adh36221 Human pur	C 169	45	1.4	89900	12	ADO79404	Ado79404 DPB3 regl
C 97	46	1.5	58000	14	ADZ42284	Adz42284 Human K10	C 170	45	1.4	107543	13	ABD33524	Abd33524 Human can
C 98	46	1.5	58922	13	ABD53407	Abd53407 Human can	C 171	45	1.4	107745	13	ABD33242	Abd33242 Human can
C 99	46	1.5	70271	14	AD212540	Ad212540 Human can	C 172	45	1.4	110000	6	ABL57909_2	AbL57909_2 Human can
C 100	46	1.5	96594	10	ADBS95974	Adbs95974 Human can	C 173	45	1.4	110000	6	ABX08336_03	AbX08336_03 Human can
C 101	46	1.5	96595	9	ADA072726	Ada072726 Human SYK	C 174	45	1.4	110000	8	AAJ52242_2	AAJ52242_2 Human can
C 102	46	1.5	96595	10	ADB72464	Adb72464 Human SYK	C 175	45	1.4	110000	12	ADJ25985_03	ADJ25985_03 Human can
C 103	46	1.5	99100	12	ADO56274	Ado56274 Human cyc	C 176	45	1.4	110000	12	ADN97989_03	ADN97989_03 Human can
C 104	46	1.5	99250	14	ADX80723	Adx80723 Human cyc	C 177	45	1.4	110000	12	ADO50281_03	ADO50281_03 Human can
C 105	46	1.5	109651	12	ADQ97818	Adq97818 Human can	C 178	45	1.4	110000	14	ABEB85185_03	ABEB85185_03 Human can
C 106	46	1.5	110000	10	ADG70447_1	Adg70447_1 Human can	C 179	45	1.4	115651	12	ADQ17592	ADQ17592 Human can
C 107	46	1.5	110000	10	ABZ79565_1	Abz79565_1 Human can	C 180	45	1.4	122748	6	ABT10719	ABT10719 Human bre
C 108	46	1.5	110000	14	ADZ13631_0	Adz13631 Human can	C 181	45	1.4	129588	10	ADL13909	ADL13909 Human can
C 109	46	1.5	110000	14	ADZ13620_0	Adz13620 Human can	C 182	45	1.4	129588	6	ABK84797	ABK84797 Human can
C 110	46	1.5	110000	14	ADZ13747_2	Adz13747_2 Human can	C 183	45	1.4	149671	9	ADB70361	ADB70361 Human can
C 111	46	1.5	117962	8	AAJ54480	AAJ54480 Human CIP	C 184	45	1.4	149671	12	ADJ37140	ADJ37140 Human can
C 112	46	1.5	141463	11	ACN43862	Acn43862 Human gen	C 185	45	1.4	171398	14	ADZ13359	ADZ13359 Human can
C 113	46	1.5	144792	10	ADC87620	Adc87620 Human GPC	C 186	45	1.4	190117	10	ADL13780	ADL13780 Human can
C 114	46	1.5	164772	10	ADL13904	Adl13904 Osteoarth	C 187	45	1.4	191584	13	ABD33586	ABD33586 Human can
C 115	46	1.5	168821	11	ACN44262	Acn44262 Human gen	C 188	45	1.4	191584	13	ADR67026	ADR67026 Human can
C 116	46	1.5	177866	10	ADL13935	Adl13935 Osteoarth	C 189	45	1.4	285300	14	ADX98573	ADX98573 Human DA
C 117	46	1.5	181257	12	ADF69677	Adf69677 Human SLIC	C 190	45	1.4	300000	10	ADSB6352	ADSB6352 Human FTE
C 118	46	1.5	188888	6	ABQ75562	Abq75562 Human rel	C 191	45	1.4	300001	12	ADO14076	ADO14076 Human pro
C 119	46	1.5	193672	10	ADL13570	Adl13570 Osteoarth	C 192	45	1.4	300001	12	ADJ12734	ADJ12734 Human pro
C 120	46	1.5	256157	11	ACN44650	Acn44650 Human gen	C 193	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 121	46	1.5	256157	11	ACN44650	Acn44650 Human gen	C 194	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 122	46	1.5	276276	11	ACN443570	Acn443570 Human can	C 195	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 123	46	1.5	347814	12	ADO59440	Ado59440 Human can	C 196	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 124	46	1.5	145	4	AAJ27638	AAJ27638 DNA encod	C 197	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 125	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 198	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 126	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 199	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 127	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 200	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 128	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 201	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 129	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 202	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 130	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 203	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 131	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 204	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 132	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 205	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 133	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 206	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 134	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 207	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 135	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 208	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 136	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 209	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 137	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 210	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 138	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 211	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 139	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 212	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 140	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 213	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 141	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 214	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 142	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 215	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 143	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 216	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 144	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 217	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 145	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 218	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 146	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 219	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 147	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 220	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 148	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 221	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 149	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 222	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 150	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 223	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 151	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 224	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 152	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 225	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 153	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 226	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 154	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 227	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 155	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 228	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 156	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 229	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 157	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 230	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 158	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 231	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 159	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 232	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 160	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 233	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 161	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 234	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 162	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 235	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 163	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 236	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 164	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 237	45	1.4	300001	12	AAK67381	AAK67381 Human imm
C 165	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 238	45	1.4	300001	12	AAK67381	AAK67381 Human imm

239	44	1.4	20674	3	AAC58017	Aac58017	Arachidon	312	43	1.4	318	5	ABA18466	Abal8466	Human	ner
240	44	1.4	23943	12	ADO97942	Ado97942	Human	can	43	1.4	354	12	ADNA1689	Aadn1689	Novel	hum
241	44	1.4	23996	5	ABA18618	Abal8618	Human	ner	43	1.4	356	12	ADNA1682	Aadn1682	Novel	hum
242	44	1.4	24964	6	ABK86595	Abk86595	Human	SA	43	1.4	362	4	AAK56485	Aak56485	Human	imm
243	44	1.4	29317	11	ACN45058	Acn45058	Human	gen	43	1.4	365	3	AAK16959	Aak16959	Human	sec
244	44	1.4	29632	5	ADM20207	Adm20207	Altermati		43	1.4	458	5	ABV50974	Abv50974	Human	pro
245	44	1.4	31808	10	ADC86600	Adc86600	Human	GPC	318	43	459	9	ACH41651	Ach41651	Human	foe
246	44	1.4	32134	4	AAI99172	Aai99172	Human	exc	319	43	462	4	AAI91684	Aai91684	Human	pol
247	44	1.4	32134	5	AAI63522	Aai63522	Human	kid	320	43	490	5	ACH47659	Ach47659	Human	inf
248	44	1.4	35100	4	AAK69767	Aak69767	Human	imm	321	43	502	5	ABV51461	Abv51461	Human	pro
249	44	1.4	35100	4	AAK65700	Aak65700	Human	imm	322	43	503	4	ABK41982	Abk41982	CDNA	enco
250	44	1.4	35115	4	AAK69766	Aak69766	Human	imm	323	43	503	9	ADB59649	Adb59649	Connectiv	
251	44	1.4	35115	4	AAK65699	Aak65699	Human	imm	324	43	538	4	AAI86635	Aai86635	Human	pol
252	44	1.4	38186	2	AAZ32028	Aaz32028	Human	MET	325	43	600	4	AAK71676	Aak71676	Human	imm
253	44	1.4	38186	2	AAZ32028	Aaz32028	Human	MET	326	43	601	8	ABX61824	Abx61824	Novel	hum
254	44	1.4	38374	6	ABL68824	AbL68824	Kidney	ca	327	43	601	8	ABX61823	Abx61823	Novel	hum
255	44	1.4	38374	6	ABL68363	AbL68363	Kidney	ca	328	43	608	5	ABV57704	Abv57704	Human	pro
256	44	1.4	38374	6	ABL68364	AbL68364	Kidney	ca	329	43	705	4	AAH08193	Aah08193	Human	CDN
257	44	1.4	38374	6	ABN96966	Abn96966	Gene	#346	330	43	1093	11	ACN88614	Acn88614	Breast	ca
258	44	1.4	39119	8	ABZ74034	Abz74034	Secreted		331	43	1155	6	AAI39976	Aai39976	Lung-spec	
259	44	1.4	39119	8	ADA98641	Ada98641	Human	bec	332	43	1275	6	AAK65471	Aak65471	Human	imm
260	44	1.4	39119	10	ADC20764	Adc20764	Human	sec	333	43	1467	4	ABA09083	AbA09083	Human	rov
261	44	1.4	39119	10	ABZ67621	Abz67621	Human	sec	334	43	1653	4	AAK83983	Aak83983	Human	imm
262	44	1.4	46404	11	ACN44270	Acn44270	Human	gen	335	43	1839	4	AAH16607	Aah16607	Human	CDN
263	44	1.4	50602	11	ACN44146	Acn44146	Human	gen	336	43	2263	13	ADV99508	Adv99508	NIH/3T3	C
264	44	1.4	58822	9	ADA02540	Ada02540	Human	TCO	337	43	2263	13	ADV99509	Adv99509	Human	RNA
265	44	1.4	58822	10	ADB72278	AdB72278	Human	TCO	338	43	2273	6	AEA01629	Aea01629	Human	SNP
266	44	1.4	58822	10	ADB95788	AdB95788	Human	TCO	339	43	2506	13	ADQ39021	Adq39021	Breast	ca
267	44	1.4	60057	11	ACN44314	Acn44314	Human	gen	340	43	2825	11	ACN92637	Acn92637	Human	his
268	44	1.4	62005	11	ACN45158	Acn45158	Human	gen	341	43	3465	14	ADW78757	Adw78757	Human	his
269	44	1.4	81369	3	AAA97997	Aaa97997	Human	T ^g	342	43	3512	10	ADL13657	Adl13657	Osteoarth	
270	44	1.4	88208	14	ADZ13389	Adz13389	Human	can	343	43	3757	13	ADQ39023	Adq39023	Human	SNP
271	44	1.4	88445	13	ABD33536	Abd33536	Human	can	344	43	3870	8	ABZ42676	Abz42676	Human	his
272	44	1.4	101270	12	ADQ17814	Adq17814	Human	sof	345	43	3870	14	ADW78755	Adw78755	DNA	encod
273	44	1.4	103375	13	ABD32761	Abd32761	Human	can	346	43	3870	14	AAH25524	Aah25524	Human	pro
274	44	1.4	110000	11	ACN44150	Acn44150	Human	can	347	43	4188	13	ACN42409	Acn42409	Human	dia
275	44	1.4	110000	13	ABD32780	Abd32780	Human	can	348	43	4289	13	ACN42407	Acn42407	Human	dia
276	44	1.4	110000	14	ADZ45062	Adz45062	Continuaction	(2 of	349	43	4307	13	ACN42408	Acn42408	Human	dia
277	44	1.4	111084	12	ADQ18808	AdQ18808	Human	sof	350	43	4321	13	ACN42408	Acn42408	Human	dia
278	44	1.4	112460	6	ABK83567	Abk83567	Human	CDN	351	43	5069	4	AAK67404	Aak67404	Human	imm
279	44	1.4	113585	12	ADJ119197	Adj119197	Human	int	352	43	5232	2	AAV55038	Aav55038	Human	XIA
280	44	1.4	117754	11	ACN43866	Acn43866	Human	gen	353	43	5856	10	ACF63378	Acf63378	Human	his
281	44	1.4	121434	12	ADN30326	Adn30326	Human	Not	354	43	6491	5	ADM20191	Adm20191	Altermati	
282	44	1.4	121434	14	AEA08528	Aea08528	Human	Not	355	43	8763	4	AAK89468	Aak89468	Human	dig
283	44	1.4	125439	6	ABQ88177	Abq88177	Human	Obt	356	43	8948	4	AAK73054	Aak73054	Human	imm
284	44	1.4	138941	8	ACC79695	Acc79695	Human	tum	357	43	9120	12	ADN11326	Adn11326	Human	kai
285	44	1.4	139257	10	ADC89520	Adc89520	Human	COR	358	43	9120	13	ADR72634	Adr72634	Human	ren
286	44	1.4	139573	10	ADH58564	Adh58564	Human	Na+	359	43	9120	14	ADY67601	Ady67601	Human	kal
287	44	1.4	149612	11	ACN45154	Acn45154	Human	gen	360	43	9120	14	ADY67601	Ady67601	Human	kal
288	44	1.4	156416	13	ABD32817	Abd32817	Human	can	361	43	9253	5	ABAI5922	Abai5922	Human	ner
289	44	1.4	160361	12	ADL08116	AdL08116	Human	gen	362	43	9253	5	ABAI6201	Abai6201	Human	ner
290	44	1.4	161531	13	ABD33232	Abd33232	Human	can	363	43	9474	6	ABK50462	Abk50462	Human	his
291	44	1.4	175077	11	ACN44626	Acn44626	Human	gen	364	43	10695	4	AAK65420	Aak65420	Human	imm
292	44	1.4	178896	6	ABO088146	AbO088146	Human	Obt	365	43	12437	10	AAZ64398	Aaz64398	Human	chr
293	44	1.4	188888	6	ABQ75562	Abq75562	Human	rel	366	43	12889	4	ABA07412	AbA07412	Human	pan
294	44	1.4	191010	12	ADO25291	AdO25291	Human	pro	367	43	12889	4	AAK91143	Aak91143	Human	dig
295	44	1.4	220895	13	ABK84798	Abk84798	Human	CDN	368	43	14143	4	ABA07413	AbA07413	Human	pan
296	44	1.4	220895	13	ADR52737	Adr52737	Drug	ther	369	43	14143	4	AAK91144	Aak91144	Human	dig
297	44	1.4	302603	11	ADP75187	Adp75187	Human	End	370	43	17431	4	AAK90339	Aak90339	Human	dig
298	43	1.4	117	3	AAK70695	Aak70695	Human	imm	371	43	17431	4	AAI57710	Aai57710	Human	col
299	43	1.4	117	3	AAK13649	Aak13649	Human	sec	372	43	17431	6	ABX99887	Abx99887	Genomic	D
300	43	1.4	120	4	AAK70692	Aak70692	Human	imm	373	43	17431	10	ADB93040	Adb93040	Human	col
301	43	1.4	149	4	AAK65042	Aak65042	Human	imm	374	43	17596	4	AAK72852	Aak72852	Human	imm
302	43	1.4	153	4	AAK66030	Aak66030	Human	imm	375	43	17804	13	ADS63646	Ads63646	Human	aut
303	43	1.4	216	4	AAK73056	Aak73056	Human	imm	376	43	17809	13	ADS636457	Ads636457	Human	aut
304	43	1.4	288	4	AAK68373	Aak68373	Human	imm	377	43	17966	4	AAI16330	Aai16330	Human	mus
305	43	1.4	288	4	AAK73436	Aak73436	Human	imm	378	43	17966	8	ABX59318	Abx59318	CDNA	enco
306	43	1.4	295	4	AAK36158	Aak36158	Human	car	379	43	17996	12	ADJ30068	Adj30068	Human	mus
307	43	1.4	295	10	ADE46852	AdE46852	Human	car	380	43	18428	13	ADS6477	Ads6477	Human	aut
308	43	1.4	295	13	ADJ08270	AdJ08270	Human	car	381	43	18664	4	AAK84438	Aak84438	Human	imm
309	43	1.4	300	4	AAK71674	Aak71674	Human	imm	382	43	22452	4	AAK65421	Aak65421	Human	imm
310	43	1.4	302	4	AAK71674	Aak71674	Human	imm	383	43	22452	4	AAK65421	Aak65421	Human	imm
311	43	1.4	309	5	ABV46991	Abv46991	Human	pro	384	43	22452	4	AAK65421	Aak65421	DNA	encod

385	43	1.4	22452	10	ADB94632	Adb94632 Novel hum
386	43	1.4	22452	10	ADB94630	Adb94630 Novel hum
C 387	43	1.4	23181	4	AAK80342	AAK80342 Human imm
C 388	43	1.4	23181	4	AAK70549	AAK70549 Human imm
C 389	43	1.4	23580	4	AAK83578	AAK83578 Human imm
C 390	43	1.4	23580	4	AAK66230	AAK66230 Human imm
C 391	43	1.4	26555	4	AAK68605	AAK68605 Human imm
C 392	43	1.4	26555	4	AAK68372	AAK68372 Human imm
C 393	43	1.4	26555	4	AAI62833	AAI62833 Human gen
C 394	43	1.4	26747	6	AAI67784	AAI67784 Nucleotid
C 395	43	1.4	31397	11	ACNA4346	ACNA4346 Human gen
C 396	43	1.4	32195	4	AAAS6105	AAAS6105 Human car
C 397	43	1.4	32195	4	AAAS31538	AAAS31538 Human DNA
C 398	43	1.4	32195	4	AAAS31532	AAAS31532 Human DNA
C 399	43	1.4	32195	4	ABKA4045	ABKA4045 Genomic D
C 400	43	1.4	32195	6	ABO66856	ABO66856 Human pol
C 401	43	1.4	32195	6	ABO66862	ABO66862 Human pol
C 402	43	1.4	32195	10	ADCI1143	ADCI1143 Human DNA
C 403	43	1.4	32195	10	ADCI1149	ADCI1149 Human DNA
C 404	43	1.4	32195	10	ADBA6799	ADBA6799 Human car
C 405	43	1.4	32195	12	ADIS5030	ADIS5030 Novel hum
C 406	43	1.4	32195	13	ADJ08217	ADJ08217 Human car
C 407	43	1.4	32196	5	ABAI8857	ABAI8857 Human ner
C 408	43	1.4	32425	10	ADCB7616	ADCB7616 Human GPC
C 409	43	1.4	36797	6	AAAD26830	AAAD26830 Human syn
C 410	43	1.4	36797	10	ADCB7688	ADCB7688 Human syn
C 411	43	1.4	37138	6	AAK81724	AAK81724 Human man
C 412	43	1.4	39105	4	ABX61804	ABX61804 Genomic D
C 413	43	1.4	40645	8	ABX61804	ABX61804 Genomic D
C 414	43	1.4	40645	9	ADBA9717	ADBA9717 Genomic D
C 415	43	1.4	45864	11	ACNA3922	ACNA3922 Human gen
C 416	43	1.4	45864	11	ADJ79948	ADJ79948 Human kin
C 417	43	1.4	51469	4	AAK78813	AAK78813 Human imm
C 418	43	1.4	51469	4	AAK70270	AAK70270 Human imm
C 419	43	1.4	51469	4	AAK69322	AAK69322 Human imm
C 420	43	1.4	58651	12	ADQ97152	ADQ97152 Human can
C 421	43	1.4	59838	11	ACNA4982	ACNA4982 Human gen
C 422	43	1.4	61648	11	ADQ97663	ADQ97663 Human can
C 423	43	1.4	73771	12	ACNA4938	ACNA4938 Human gen
C 424	43	1.4	77478	11	ACNA4766	ACNA4766 Human gen
C 425	43	1.4	86000	12	ADPC6858	ADPC6858 Human rpa
C 426	43	1.4	86191	8	ABX14763	ABX14763 Genomic D
C 427	43	1.4	91359	13	ABD32673	ABD32673 Human can
C 428	43	1.4	92117	11	ACNA4746	ACNA4746 Human can
C 429	43	1.4	93273	9	AAI57580	AAI57580 Human gtp
C 430	43	1.4	94719	10	ADBS9902	ADBS9902 Human STR
C 431	43	1.4	94720	9	ADBA02654	ADBA02654 Human STR
C 432	43	1.4	94720	10	ADB72392	ADB72392 Human STR
C 433	43	1.4	96591	10	ADCB5301	ADCB5301 Mouse Sos
C 434	43	1.4	96592	9	ADBA02822	ADBA02822 Human SOS
C 435	43	1.4	96592	10	ADB72560	ADB72560 Human SOS
C 436	43	1.4	96592	12	ADM74417	ADM74417 Human car
C 437	43	1.4	99014	6	ABN96931	ABN96931 Gene #342
C 438	43	1.4	110000	10	AAI52246_2	Continuation (3 of
C 439	43	1.4	110000	14	ACNA4150_1	Continuation (2 of
C 440	43	1.4	110000	14	ADZ42274_0	Continuation (2 of
C 441	43	1.4	115829	13	ABD33448_0	ADZ42274 Human min
C 442	43	1.4	119235	12	ADP03020	ABD33448 Human can
C 443	43	1.4	119241	13	ADS88518	ADP03020 Human hou
C 444	43	1.4	119241	13	ADU60136	ADS88518 Human hou
C 445	43	1.4	121162	13	AAAC66548	ADU60136 Housekeep
C 446	43	1.4	125439	6	ABO88177	AAAC66548 Human kin
C 447	43	1.4	127917	13	ADRS5731	ABO88177 Human otc
C 448	43	1.4	130207	11	ACNA4762	ADRS5731 Drug cher
C 449	43	1.4	133893	9	AAAD54538	ACNA4762 Human gen
C 450	43	1.4	135827	13	ABD33219	AAAD54538 Human pho
C 451	43	1.4	136328	6	ABZ35015	ABD33219 Human can
C 452	43	1.4	140352	14	ADZ13610	ABZ35015 Human gen
C 453	43	1.4	143239	12	ADQ17729	ADZ13610 Human can
C 454	43	1.4	144068	13	ABD32888	ADQ17729 Human sof
C 455	43	1.4	147620	10	ADL13739	ABD32888 Human can
C 456	43	1.4	147620	12	ADQ19948	ADL13739 Osteoartrh
C 457	43	1.4	155225	12	ADQ59197	ADQ19948 Human sof
						Adq59197 MSI-H car

458	43	1.4	160552	4	AAAD02697	AAAD02697 Human gly
C 459	43	1.4	165156	13	ADBS6459	ADBS6459 Human aut
C 460	43	1.4	167343	6	ABLE64403	ABLE64403 Stomach c
C 461	43	1.4	167343	6	ABLE67239	ABLE67239 Thyroid c
C 462	43	1.4	169144	10	ADL13748	ADL13748 Osteoartrh
C 463	43	1.4	174493	8	ACA613395	ACA613395 Novel hum
C 464	43	1.4	174493	10	AAAD59937	ACA613395 Novel hum
C 465	43	1.4	174493	12	ADQ40593	AAAD59937 Human kin
C 466	43	1.4	201143	6	ABK83568	ADQ40593 Human kin
C 467	43	1.4	215221	11	ACNA4754	ABK83568 Human DNA
C 468	43	1.4	276276	13	ACNA4350	ACNA4754 Human gen
C 469	43	1.4	310268	13	ABD32548	ACNA4350 Human gen
C 470	43	1.4	326002	13	ABD32843	ABD32548 Human can
C 471	42	1.3	197	4	AAK65128	ABD32843 Human can
C 472	42	1.3	197	4	AAK65129	AAK65128 Human imm
C 473	42	1.3	281	5	ABVA9425	AAK65129 Human imm
C 474	42	1.3	302	4	AAK83454	ABVA9425 Human pro
C 475	42	1.3	336	3	AAAI6012	AAK83454 Human imm
C 476	42	1.3	351	5	ABVA19658	AAAI6012 Human col
C 477	42	1.3	380	4	AAI90890	ABVA19658 Human pro
C 478	42	1.3	394	5	AD174275	AAI90890 Human pol
C 479	42	1.3	394	5	AD167898	AD174275 Human ova
C 480	42	1.3	397	5	AD174276	AD167898 Human ova
C 481	42	1.3	397	5	AD167899	AD174276 Human ova
C 482	42	1.3	398	5	AD167899	AD167899 Human ova
C 483	42	1.3	398	11	ACNA91099	AD167899 Human ova
C 484	42	1.3	404	4	AAI91924	ACNA91099 Breast ca
C 485	42	1.3	416	4	AAI13072	AAI91924 Human pol
C 486	42	1.3	423	5	ABVS3371	AAI13072 Human bre
C 487	42	1.3	441	5	ADL39512	ABVS3371 Human pro
C 488	42	1.3	442	5	ADL39513	ADL39512 Human ova
C 489	42	1.3	457	11	ACN87882	ADL39513 Human ova
C 490	42	1.3	458	14	ACLS6872	ACN87882 Breast ca
C 491	42	1.3	496	6	ABN63968	ACLS6872 Human col
C 492	42	1.3	540	4	AAH10129	ABN63968 Human can
C 493	42	1.3	559	4	AAH10557	AAH10129 Human cdn
C 494	42	1.3	566	4	AAK30902	AAH10557 Human cdn
C 495	42	1.3	566	5	AAAS1937	AAK30902 Human dig
C 496	42	1.3	566	6	ABN90292	AAAS1937 Human liv
C 497	42	1.3	566	11	ADJ15205	ABN90292 Human liv
C 498	42	1.3	568	6	ABN60116	ADJ15205 Human liv
C 499	42	1.3	572	6	AAAD34118	ABN60116 Human can
C 500	42	1.3	598	14	ACLS8022	AAAD34118 Human sec
						ACLS8022 Human col

ALIGNMENTS

RESULT 1						
ID	ADQ62941	standard; cDNA; 3122 BP.				
XX	AC	ADQ62941;				
XX	AC	ADQ62941;				
XX	DT	07-OCT-2004 (first entry)				
XX	DE	Novel human cDNA sequence #102.				
XX	XX	bs; gene; osteopathic; neuroprotective; nootropic; antiparkinsonian;				
XX	XX	cytostatic; gene therapy; diagnostic marker; morbid state; osteoporosis;				
XX	XX	neurological disease; Alzheimer's disease; Parkinson's disease; dementia;				
XX	XX	cancer.				
XX	OS	Homo sapiens.				
XX	FN	EP1440981-A2.				
XX	PD	28-JUL-2004.				
XX	PF	21-JAN-2004; 2004EP-00001196.				
XX	PR	21-JAN-2003; 2003JP-00102206.				
XX	PR	09-MAY-2003; 2003JP-00131392.				

QY 1741 CCGGAGAAATTAACTTTGCGCGCGCGCTGACGGGCAATTACCGTCTGACGAGCT 1800
 DB 1741 CCGGAGAAAGTTAACTTTGCGCGCGCGCTGACGGGCAATTACCGTCTGACGAGCT 1800
 QY 1801 TTATTCCTTATTAATGAAAAACCGTCAAGTGAACCTTGAATCCCTCCGAGTTATGAGTT 1860
 DB 1801 TTATTCCTTATTAATGAAAAACCGTCAAGTGAACCTTGAATCCCTCCGAGTTATGAGTT 1860
 QY 1861 AACCATGTGCTGTGTGGGCGCTCTTTTACAGGAGTCCGAGTCCGATCCCACTCCGCA 1920
 DB 1861 AACCATGTGCTGTGTGGGCGCTCTTTTACAGGAGTCCGAGTCCGATCCCACTCCGCA 1920
 QY 1921 GCGTGGCCCCCTTTCTGCGTGGGACAGTTGAAAAAGTGGGTGGGTGGAGTGAAGTTTG 1980
 DB 1921 GCGTGGCCCCCTTTCTGCGTGGGACAGTTGAAAAAGTGGGTGGGTGGAGTGAAGTTTG 1980
 QY 1981 GAGAGGACCGTGTGTTGGTTCATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2040
 DB 1981 GAGAGGACCGTGTGTTGGTTCATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2040
 QY 2041 TCAATGTGACGACCTTTTATTAACCTTAACTTTCAAGGCTTAATTTAGAGAGTGTCC 2100
 DB 2041 TCAATGTGACGACCTTTTATTAACCTTAACTTTCAAGGCTTAATTTAGAGAGTGTGTCC 2100
 QY 2101 TGAAGACATTCATACAAAGGCTTTTCTTAAGACGCGCTACAGCCCTTCTTACAGAGT 2160
 DB 2101 TGAAGACATTCATACAAAGGCTTTTCTTAAGACGCGCTACAGCCCTTCTTACAGAGT 2160
 QY 2161 TTATTCATTTGTTCCCAAGACAGCTAGAGAGTTTGAAGTCATGACCTCCCACTGCGG 2220
 DB 2161 TTATTCATTTGTTCCCAAGACAGCTAGAGAGTTTGAAGTCATGACCTCCCACTGCGG 2220
 QY 2221 CTCAGGGGCTGACCTTTATTTAGAAACCAAGAGGGTGGTGAACCTACTCAGCGAC 2280
 DB 2221 CTCAGGGGCTGACCTTTATTTAGAAACCAAGAGGGTGGTGAACCTACTCAGCGAC 2280
 QY 2281 TTGATTCAGTGGCGACACTTGTGCGGAAAAAGGCTCTTCCGACGCCACCGGAGATGG 2340
 DB 2281 TTGATTCAGTGGCGACACTTGTGCGGAAAAAGGCTCTTCCGACGCCACCGGAGATGG 2340
 QY 2341 GGGTAAAGAGAAAGACAGAGCTTGGGGTAGGGCACTGGTGTGTTAAACAGGACCTTTC 2400
 DB 2341 GGGTAAAGAGAAAGACAGAGCTTGGGGTAGGGCACTGGTGTGTTAAACAGGACCTTTC 2400
 QY 2401 TCCCTTCTGCGGCTTATTTTGTTCAGAACTAGACAGAGTGTGAACTCTCTTGCA 2460
 DB 2401 TCCCTTCTGCGGCTTATTTTGTTCAGAACTAGACAGAGTGTGAACTCTCTTGCA 2460
 QY 2461 GAGAGGCTGGGAATCTCTTTAGAGCACTTAATCTTATTAATCCCTGGAATGTGCGTGC 2520
 DB 2461 GAGAGGCTGGGAATCTCTTTAGAGCACTTAATCTTATTAATCCCTGGAATGTGCGTGC 2520
 QY 2521 TGGCAGTAGAGAGGCTGGCTTTGGCAGCTCCGACCCCGCGCTGCGCGCCCTCCGG 2580
 DB 2521 TGGCAGTAGAGAGGCTGGCTTTGGCAGCTCCGACCCCGCGCTGCGCGCCCTCCGG 2580
 QY 2581 GGTATGTGCACTTACTGCGCCACAGAGGTTTGAAGCAATCAGCTCTGAGACTGGGTTA 2640
 DB 2581 GGTATGTGCACTTACTGCGCCACAGAGGTTTGAAGCAATCAGCTCTGAGACTGGGTTA 2640
 QY 2641 GAATGTAAACAGCTTAACTTGGAGTTTAAAGAGCTTTTAAAGGTAAATCTCTGAAA 2700
 DB 2641 GAATGTAAACAGCTTAACTTGGAGTTTAAAGAGCTTTTAAAGGTAAATCTCTGAAA 2700
 QY 2701 GAAAAATGACCTTAACCAAGGCTGTACTATGAAAGCTGTATTTTAAATTAAGAACGCTGG 2760
 DB 2701 GAAAAATGACCTTAACCAAGGCTGTACTATGAAAGCTGTATTTTAAATTAAGAACGCTGG 2760
 QY 2761 GGCATGAATCATATCTGCAATGAGTCAAAATATGATTTTATGATGATGATGATGATGATGAT 2820
 DB 2761 GGCATGAATCATATCTGCAATGAGTCAAAATATGATTTTATGATGATGATGATGATGATGAT 2820
 QY 2821 ACTAATATATATATTCATCTACTCTGAAAGTTGATGATCTTCCCGCCCGCCCACTTTT 2880

DB 2821 ACTAATATATATATTCATCTACTCTGAAAGTTATGATCTTCCCGCCCGCCCACTTTT 2880
 QY 2881 TCTTTTGGAGGAGGATGATCACTGAGGCAAGAGTTGAGACAGCAAGCTGCGCAACAT 2940
 DB 2881 TCTTTTGGAGGAGGATGATCACTGAGGCAAGAGTTGAGACAGCAAGCTGCGCAACAT 2940
 QY 2941 AGCGAAACCGGATCTCTAATAAATAAATAAATTTGGCCGGCAGTGTGGCGCATGCT 3000
 DB 2941 AGCGAAACCGGATCTCTAATAAATAAATAAATTTGGCCGGCAGTGTGGCGCATGCT 3000
 QY 3001 GTGTCCCACTACTCGGAGGTTGAGGCAAGAGTGTGTTGAATGACAGAGTGAAG 3060
 DB 3001 GTGTCCCACTACTCGGAGGTTGAGGCAAGAGTGTGTTGAATGACAGAGTGAAG 3060
 QY 3061 TTGCAATGACAAAGATTGTCATCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTGC 3120
 DB 3061 TTGCAATGACAAAGATTGTCATCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTGC 3120
 QY 3121 TC 3122
 DB 3121 TC 3122

RESULT 2
 ADR07462
 ID ADR07462 standard; cDNA; 2327 BP.

AC ADR07462;

DT 04-NOV-2004 (first entry)

XX Full length human cDNA useful for treating neurological disease Seq 968.

DE gene, ss; human, oligo-capping method; diagnostic marker; gene therapy;
 KM osteoporosis; neurological disease; Alzheimer's disease;
 KM Parkinson's disease; dementia; short memory; cancer;
 KM sense or motor function; emotional reaction; fear response; panic;
 KM osteopathic; neuroprotective; nootropic; antiparkinsonian; cyostatic;
 KM tranquilliser.

XX Homo sapiens.

XX EPI447413-A2.

PN 18-AUG-2004.

PD 12-FEB-2004; 2004EP-00003145.

PP 14-FEB-2003; 2003JP-00102207.

PR 09-MAY-2003; 2003JP-00131452.

XX (REAS-) RES ASSOC BIOTECHNOLOGY.

PA Iwogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T,

P1 Wakamatsu A, Ishii S, Nagai K, Irie R,

XX WPI: 2004-583265/57.

XX P-P5DB; ADR09418.

XX New 1995 cDNA, useful for treating osteoporosis, neurological diseases,

XX Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.

XX Claim 1; SEQ ID NO 968; 2686bp; English.

CC This invention relates to novel, isolated full length human cDNA
 CC molecules and the encoded proteins thereof. Specifically, it refers to
 CC cDNA clones obtained by an oligo-capping method, where none of these
 CC clones are identical to any known human mRNAs. The present invention
 CC describes an immunoassay to identify agonists and antagonists, as well as
 CC antibodies, antisense molecules and siRNAs that can all be used to bind
 CC to and modulate expression of the cDNA molecules. As such, these
 CC molecules are useful for diagnostic markers or therapeutic targets for

CC the various diseases or morbid states. In particular, they are useful in
CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's
CC disease, Parkinson's disease, dementia, short memory and various cancers,
CC as well as for maintaining equilibrium of sense or motor function, and
CC for treating emotional reaction, fear response and panic. Accordingly,
CC they exhibit osteoplastic, neuroprotective, neurotropic, antiparkinsonian,
CC cyostatic and tranquilliser activities. This polynucleotide is a full
CC length human cDNA sequence of the invention. NOTE: This sequence is not
CC given in the sequence listing of the specification but can be obtained on
CC CD-ROM from the European Patent Office, Vienna Sub-office.

XX Sequence 2327 BP; 424 A; 667 C; 788 G; 448 T; 0 U; 0 Other;

Query Match 62.5%; Score 1952; DB 13; Length 2327;

Best Local Similarity 99.7%; Pred. No. 0; Mismatches 5; Indels 1; Gaps 1;

Matches 2322; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 444 ACCCGGCGCCCTTGGCAGCGCCTTAAAGCGAGCGCGCGCTCTGCAAGCTTGGCCCC 503
DB 1 ACCCGGCGCCCTTGGCAGCGCCTTAAAGCGAGCGCGCGCTCTGCAAGCTTGGCCCC 60
QY 504 GGAATTGGCAACCACGAGAGATGGAGACCGCAACCTTCACTTTCGAGAGCCACCGTGG 563
DB 61 GGAATTGGCAACCACGAGAGATGGAGACCGCAACCTTCACTTTCGAGAGCCACCGTGG 120
QY 564 AGGCGAGCGCGGTGGAGAGACACGACTGTGACTGGAGTGGCGCTGGGAGAGATGAGACG 623
DB 121 AGGCGAGCGCGGTGGAGAGACACGACTGTGACTGGAGTGGCGCTGGGAGAGATGAGACG 180
QY 624 AGGAGAGCGGGAGACCGCTAACGAGGCGCTCCTCTGCGCGCGCCCGTCCGACGAGCCACGT 683
DB 181 AGGAGAGCGGGAGACCGCTAACGAGGCGCTCCTCTGCGCGCGCCCGTCCGACGAGCCACGT 240
QY 684 CGAGGCTCCGCGCGCGGCTCCGTGAGCGTGGCGGCTGAGCGCGGAGAGTCAACGACAT 743
DB 241 CGAGGCTCCGCGCGCGGCTCCGTGAGCGTGGCGGCTGAGCGCGGAGAGTCAACGACAT 300
QY 744 GAAAGACGCTTCTGTCGCGCGCGGCGGAGCGCGGAGTGGGTTTACCAATCTGCGCGG 803
DB 301 GAAAGACGCTTCTGTCGCGCGCGGCGGAGCGCGGAGTGGGTTTACCAATCTGCGCGG 360
QY 804 CTGAGAGGAGGAGCTTAAACGAGCGCGCGGCGCGGCGGAGCGGAGCCACCGGAGTGGG 863
DB 361 CTGAGAGGAGGAGCTTAAACGAGCGCGCGGCGCGGCGGAGCGGAGCCACCGGAGTGGG 420
QY 864 AGGAGAGAGTGCAGAGCGCTGCTGAGACGGGCTCAACAAAGACGACTGCTTACCAACAC 923
DB 421 AGGAGAGAGTGCAGAGCGCTGCTGAGACGGGCTCAACAAAGACGACTGCTTACCAACAC 480
QY 924 CTGAGTGTGACCTGCTGAGTGGCTCGCGGAGACTGCGAGAACCTGCGGAGAGAGCTGCAAAAG 983
DB 481 CTGAGTGTGACCTGCTGAGTGGCTCGCGGAGACTGCGAGAACCTGCGGAGAGAGCTGCAAAAG 540
QY 984 AGCGCCCAAGAGCGGAGCGAGTGGCGGTGCACCTGCGCGCGGCTGAGCTGAGTGGG 1043
DB 541 AGCGCCCAAGAGCGGAGCGAGTGGCGGTGCACCTGCGCGCGGCTGAGCTGAGTGGG 600
QY 1044 CGCGACCGGCGCGTGGCGCGGACGAGCGAGCGCGGAGTTCGAGCGGCTGAGTGGGCTTTC 1103
DB 601 CGCGACCGGCGCGTGGCGCGGACGAGCGAGCGCGGAGTTCGAGCGGCTGAGTGGGCTTTC 660
QY 1104 TGGGCTGTGCTTGGACCTGTGAGAGGAGCACTGCGTGGAGCTTGGGCGCGCGG 1163
DB 661 TGGGCTGTGCTTGGACCTGTGAGAGGAGCACTGCGTGGAGCTTGGGCGCGCGG 720
QY 1164 TTTCGCGCTGACGCGCGCGGCGGAGCGCTGAGTGGGCAAGAGTGGGCTTGGCGCTTCC 1223
DB 721 TTTCGCGCTGACGCGCGCGGCGGAGCGCTGAGTGGGCAAGAGTGGGCTTGGCGCTTCC 780
QY 1224 GGCCTGTGGCGCGCGCGCTGAGACACCGGCACTTGGGCTTGGCGGAGGAGCGGCACTTTC 1283
DB 781 GGCCTGTGGCGCGCGCGCTGAGACACCGGCACTTGGGCTTGGCGGAGGAGCGGCACTTTC 840

QY 1284 GACCTGCGGACCTGCGGAGCTGAGCGGAGGCTCTTCAAGTGGCGAGATGATCGAC 1343
DB 841 GACCTGCGGACCTGCGGAGCTGAGCGGAGGCTCTTCAAGTGGCGAGATGATCGAC 900
QY 1344 AACATGAGATGAAGTCAACGTGCGCGCTGAGACCTGCAAGCCCGGACGCGCGGCG 1403
DB 901 AACATGAGATGAAGTCAACGTGCGCGCTGAGACCTGCAAGCCCGGACGCGCGGCG 960
QY 1404 GCCAGCTCCGTGCTCAGCGTCAAGCGCGCGCGCGCTCTGCGGTGCTCTTTCAGAGGCG 1463
DB 961 GCCAGCTCCGTGCTCAGCGTCAAGCGCGCGCGCGCTCTGCGGTGCTCTTTCAGAGGCG 1020
QY 1464 GGGGGGGGTTGCGAACCCGAGAAAGGCGCTGCGCGGACCTTTCGCGCGCGTGTGCTG 1523
DB 1021 GGGGGGGGTTGCGAACCCGAGAAAGGCGCTGCGCGGACCTTTCGCGCGCGTGTGCTG 1080
QY 1524 GCGGCTGTGGCCTTACCGGTGTGCGTGGAGAGCTGACCTGACAGACACCCGACGCGCG 1583
DB 1081 GCGGCTGTGGCCTTACCGGTGTGCGTGGAGAGCTGACCTGACAGACACCCGACGCGCG 1140
QY 1584 CTGCTGCTGCGGCTCCCTCCCTGAGAAABAACCTGGAGATGGGTGTGGGCTTGGCTGT 1643
DB 1141 CTGCTGCTGCGGCTCCCTCCCTGAGAAABAACCTGGAGATGGGTGTGGGCTTGGCTGT 1200
QY 1644 GCAAGGGAGATGTCTTAAACCCGATGTGATGATGATGATGATGATGATGATGATGAT 1703
DB 1201 GCAAGGGAGATGTCTTAAACCCGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260
QY 1704 ATCTGCTGTGGCAGGACACGCTTTCCTTGTGCGCGCGGAGAGATTTAATCTTTCGCG 1763
DB 1261 ATCTGCTGTGGCAGGACACGCTTTCCTTGTGCGCGCGGAGAGATTTAATCTTTCGCG 1319
QY 1764 GCGCGTCAAGGCTTAAACCTGCTTAAAGTGTGAGAGAGCTTATTTCTTATTAATGA 1823
DB 1320 GCGCGTCAAGGCTTAAACCTGCTTAAAGTGTGAGAGAGCTTATTTCTTATTAATGA 1379
QY 1824 GTCAAGTGAACCTTAAAGTGTGAGAGAGCTTATTTCTTATTAATGAAGTGTGAGAG 1883
DB 1380 GTCAAGTGAACCTTAAAGTGTGAGAGAGCTTATTTCTTATTAATGAAGTGTGAGAG 1439
QY 1884 TTTTACAGGAGTCCGAGTTCGAGTGCACCCCTGCGAGCGTTCGCGCGCTTTCGCGTGG 1943
DB 1440 TTTTACAGGAGTCCGAGTTCGAGTGCACCCCTGCGAGCGTTCGCGCGCTTTCGCGTGG 1499
QY 1944 ACAATTTGAAAAGTGGGTGGGTGAGTGAAGTGTGAGAGAGAGCGCTTGTGTTGTTCTA 2003
DB 1500 ACAATTTGAAAAGTGGGTGGGTGAGTGAAGTGTGAGAGAGAGCGCTTGTGTTGTTCTA 1559
QY 2004 TGTGTTGCTGTTTCCCGGACAAAGAAAATTCGATCAATGTCAGACGCTTATTTA 2063
DB 1560 TGTGTTGCTGTTTCCCGGACAAAGAAAATTCGATCAATGTCAGACGCTTATTTA 1619
QY 2064 CTTTATCTTTCAGGCGCTTAAATTTAGAGAGTGTCTGAGAGCAGTTTATTAAGAGGCG 2123
DB 1620 CTTTATCTTTCAGGCGCTTAAATTTAGAGAGTGTCTGAGAGCAGTTTATTAAGAGGCG 1679
QY 2124 TTTTCTTAAAGCGGCTTAAAGCGCTTCTTAAAGAGTTCATTTGCTCCCAAGAGCA 2183
DB 1680 TTTTCTTAAAGCGGCTTAAAGCGCTTCTTAAAGAGTTCATTTGCTCCCAAGAGCA 1739
QY 2184 GCTAGAAAGATTTGAGGTCAATGACCTTCACTGCGCGCTCAGGGGCTGACCTTATTTAG 2243
DB 1740 GCTAGAAAGATTTGAGGTCAATGACCTTCACTGCGCGCTCAGGGGCTGACCTTATTTAG 1799
QY 2244 AAACCAAGAGGTTGAGTGAACCTTCACTGAGAGCTTGAATTCAGTGGCACTTTC 2303
DB 1800 AAACCAAGAGGTTGAGTGAACCTTCACTGAGAGCTTGAATTCAGTGGCACTTTC 1859
QY 2304 CTGCGGAAAAGGCTTCTCCCAAGCACCCCGAGATGGGGTGAAGAGAGAGAGGCT 2363
DB 1860 CTGCGGAAAAGGCTTCTCCCAAGCACCCCGAGATGGGGTGAAGAGAGAGAGGCT 1919
QY 2364 TGGGATGAGGCACTGTGTGTTTAAACAGGCACTTTCCTTCTGCGGCTTATTTTTC 2423

Db 1920 TGGGGTGGGGCCACTGTGTTTAAACAGGCACTTCTCTCTGCGGCTTAATTTTG 1979
Qy 2424 TTCAGACTAGACGAGGTGTTTAACTCTTTCAGAGAGGGCTGGGAATCCTTTAG 2483
Db 1980 TTTCGAACCTAGACAGAGGTGTTTAACTCTTTCAGAGAGGGCTGGGAATCCTTTAG 2039
Qy 2484 AGCACTTAATCTTAATTTATCCCTGGAATGTGCTGTGCGAGTAGAGAGGCTGCTTT 2543
Db 2040 AGCACTTAATCTTAATTTATCCCTGGAATGTGCTGTGCGAGTAGAGAGGCTGCTTT 2099
Qy 2544 GGCAGCTCCCTGAGCCCCCGCTGCCCCCTCCGGGTAAATGTGCATTACTGCCCCA 2603
Db 2100 GGCAGCTCCCTGAGCCCCCGCTGCCCCCTCCGGGTAAATGTGCATTACTGCCCCA 2159
Qy 2604 CAGAGTTTTCAGGCATCAGCTCTGAGACTGGGTTAGAAATGTAACGCTTTAATTGGG 2663
Db 2160 CAGAGTTTTCAGGCATCAGCTCTGAGACTGGGTTAGAAATGTAACGCTTTAATTGGG 2219
Qy 2664 ATTTAAGAGCTTTTAAAGGTAATTAATCTCTGAAAAAAAATGACGTAAACACAGCGT 2723
Db 2220 ATTTAAGAGCTTTTAAAGGTAATTAATCTCTGAAAAAAAATGACGTAAACACAGCGT 2279
Qy 2724 GTACTAATGAAGCTGTTATTTTAAAGAAAGCTGGGCCATGAACTC 2771
Db 2280 GTACTAATGAAGCTGTTATTTTAAAGAAAGCTGGGCCATGAACTC 2327

RESULT 3

AAK83424/C

ID AAK83424 standard; DNA; 1009 BP.

XX AAK83424;

DT 07-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38236.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

XX cytosolic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

XX

XX

XX

PD 09-AUG-2001.

XX

PF 17-JAN-2001; 2001WO-US001354.

XX

XX

PR 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0189874P.

PR 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205515P.

PR 07-JUN-2000; 2000US-0209467P.

PR 26-JUN-2000; 2000US-0214866P.

PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-0216647P.

PR 07-JUL-2000; 2000US-0216880P.

PR 11-JUL-2000; 2000US-0217487P.

PR 11-JUL-2000; 2000US-0217496P.

PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224519P.

PR 14-AUG-2000; 2000US-0225213P.

PR 14-AUG-2000; 2000US-0225214P.

PR 14-AUG-2000; 2000US-0225266P.

PR 14-AUG-2000; 2000US-0225267P.

PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230457P.
PR 06-SEP-2000; 2000US-0230458P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236347P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.

PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251899P.
PR 08-DEC-2000; 2000US-0251902P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX MPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure: SEQ ID NO 38235; 3071bp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
XX amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
XX activity, and can be used in gene therapy and vaccine production. (I)
XX proteins and polynucleotides may be used in the prevention, diagnosis and
XX treatment of diseases associated with inappropriate (I) expression. For
XX example, they may be used to treat disorders associated with decreased
XX expression by rectifying mutations or deletions in a patient's genome
XX that affect the activity of (I) by expressing inactive proteins or to
XX supplement the patient's own production of (I). Additionally, (I)
XX polynucleotides may be used to produce the secreted (I), by inserting the
XX nucleic acids into a host cell and culturing the cell to express the
XX protein. (I) proteins and polynucleotides may be used to prevent,
XX diagnose and treat immune/haematopoietic-related diseases, especially
XX cancers and cancer metastases of haematopoietic-derived cells. AAK64703
XX to AAK81694 represent human immune/haematopoietic antigen genomic
XX sequences from the present invention. AAK54942 to AAK54950 and AAM82169
XX represent sequences used in the exemplification of the present invention
XX
XX Sequence 1009 BP; 260 A; 269 C; 239 G; 241 T; 0 U; 0 Other;
SQ

Query Match 32.3%; Score 1009; DB 4; Length 1009;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1009; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1766 CCGTCAAGGCGATTACCGCTTAAGCTGTGACAGAGCTTTATCCCTATTATAGAAACCGT 1825
DB 1009 CCGTCAAGGCGATTACCGCTTAAGCTGTGACAGAGCTTTATCCCTATTATAGAAACCGT 950
QY 1826 CACAGTGAACCTGATATCCCTCCGAGTATATGATTAACAATGCTGTGAGGGGCTTT 1885
DB 949 CACAGTGAACCTGATATCCCTCCGAGTATATGATTAACAATGCTGTGAGGGGCTTT 890
QY 1886 TACAGGAGATCCGAGTTCGGTCCCAACCCCTGACAGCGTCCGCCCTTCTGCGTGGAC 1945
DB 889 TACAGGAGATCCGAGTTCGGTCCCAACCCCTGACAGCGTCCGCCCTTCTGCGTGGAC 830
QY 1946 AGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTGAGAGGAGACGCTGTTTGTCTATG 2005
DB 829 AGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTGAGAGGAGACGCTGTTTGTCTATG 770
QY 2006 TGGTGTGCTGTTTCCCGGACAAAGAAATTCATCAATCAATTCAGAGCTTTATATACC 2065
DB 769 TGGTGTGCTGTTTCCCGGACAAAGAAATTCATCAATCAATTCAGAGCTTTATATACC 710
QY 2066 TTAATCTTTCAGGCGCTTAATTTAGAGAGTCTCTGAGAGAGTTCATACAAAGGCTT 2125
DB 709 TTAATCTTTCAGGCGCTTAATTTAGAGAGTCTCTGAGAGAGTTCATACAAAGGCTT 650
QY 2126 TCTTAAAGCGGCTACAGCCCTTCTAGACAGATTATCAATGCTCCCAAGAGACG 2185
DB 649 TCTTAAAGCGGCTACAGCCCTTCTAGACAGATTATCAATGCTCCCAAGAGACG 590

QY 2186 TAGAAGATTTAGAGTCATGACCTCCCACTGCGCTCAGAGGCGTGAACCTATTATAGANA 2245
DB 589 TAGAAGATTTAGAGTCATGACCTCCCACTGCGCTCAGAGGCGTGAACCTATTATAGANA 530
QY 2246 ACCAAAGAGGTGGTGAACCTACTCTGACGAGCTTGATTCAGTGGCACAATTGGCT 2305
DB 529 ACCAAAGAGGTGGTGAACCTACTCTGACGAGCTTGATTCAGTGGCACAATTGGCT 470
QY 2306 GCGGAAAAGGCTCCCGACGACACCGGAGATGGGGGTAAAGAGAAAGAGAGAGCTTG 2365
DB 469 GCGGAAAAGGCTCCCGACGACACCGGAGATGGGGGTAAAGAGAAAGAGAGAGCTTG 410
QY 2366 GGGTAGGCGCACTGCTGTTTAAACAGGCACTTCTCTCTCTGAGGCTTAATTTTGT 2425
DB 409 GGGTAGGCGCACTGCTGTTTAAACAGGCACTTCTCTCTCTGAGGCTTAATTTTGT 350
QY 2426 CAGAACTAGACCAAGTGTGAAACCTCTTTCAGAGAGGCTGGAATCTCTTAAAG 2485
DB 349 CAGAACTAGACCAAGTGTGAAACCTCTTTCAGAGAGGCTGGAATCTCTTAAAG 290
QY 2486 CACTTAATCTTAATTTATCCCTGGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2545
DB 289 CACTTAATCTTAATTTATCCCTGGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 230
QY 2546 CAGCTCCCTGACCCCGGCTGCGCCCTCCGAGGATATGATGAGCACTTACCTGCGCACA 2605
DB 229 CAGCTCCCTGACCCCGGCTGCGCCCTCCGAGGATATGATGAGCACTTACCTGCGCACA 170
QY 2606 GAGGTTTGAACCAATCAGCTCTGAGACTGAGGTTAGATGTAACAGCTTTAACTTGGAT 2665
DB 169 GAGGTTTGAACCAATCAGCTCTGAGACTGAGGTTAGATGTAACAGCTTTAACTTGGAT 110
QY 2666 TTAAGAACCTTTTAAAGATTAATCTCTGAAAGAAATGAGCTAACCAAGCGGT 2725
DB 109 TTAAGAACCTTTTAAAGATTAATCTCTGAAAGAAATGAGCTAACCAAGCGGT 50
QY 2726 ACTATGAAGCTGATTTATTTATTAAGAACCTGAGGCTGATGACTATA 2774
DB 49 ACTATGAAGCTGATTTATTTATTAAGAACCTGAGGCTGATGACTATA 1

RESULT 5
AAK83422/C
ID AAK83422 standard; DNA; 1009 BP.
XX
XX AAK83422;
XX
XX DT 07-NOV-2001 (first entry)
XX
XX DB Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38234.
XX KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX OS Homo sapiens.
XX
XX PN WO200157182-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 17-JAN-2001; 2001WO-US001354.
XX
XX PR 31-JAN-2000; 2000US-0179065P.
XX PR 04-FEB-2000; 2000US-0180628P.
XX PR 24-FEB-2000; 2000US-0184649P.
XX PR 02-MAR-2000; 2000US-0186350P.
XX PR 16-MAR-2000; 2000US-0189874P.
XX PR 17-MAR-2000; 2000US-0190076P.
XX PR 18-APR-2000; 2000US-0198123P.
XX PR 19-MAY-2000; 2000US-0205515P.
XX PR 07-JUN-2000; 2000US-0209467P.
XX PR 28-JUN-2000; 2000US-0214886P.
XX PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225575P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 08-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0230808P.
PR 08-SEP-2000; 2000US-0230811P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0233397P.
PR 14-SEP-2000; 2000US-0233398P.
PR 14-SEP-2000; 2000US-0233399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0233401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234221P.
PR 21-SEP-2000; 2000US-0234224P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0234984P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239335P.
PR 13-OCT-2000; 2000US-0239337P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.

PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246509P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249219P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249255P.
PR 17-NOV-2000; 2000US-0249257P.
PR 17-NOV-2000; 2000US-0249259P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251866P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.
Rosen CA, Barash SC, Ruben SM;
WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX
PS Disclosure; SEQ ID NO 38234; 3071bp + Sequence Listing; English.
CC AAK5451 to AAK54702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)

CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK81694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 1009 BP; 259 A; 269 C; 239 G; 242 T; 0 U; 0 Other;

Query Match 29.1%; Score 907; DB 4; Length 1009;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 1007; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1766 CCGTCAAGGCGATTACCGCTTAAGCTGTGCAAGAGCTTTATCCCTATTATAGAAAACCGT 1825
 DB 1009 CCGTCAAGGCGATTACCGCTTAAGCTGTGCAAGAGCTTTATCCCTATTATAGAAAACCGT 950
 QY 1826 CACAGTGAACCTAGATCCCTCGAGTTATAGTTAACAACATGCTGTGTGGGGGCTCTT 1885
 DB 949 CACAGTGAACCTAGATCCCTCGAGTTATAGTTAACAACATGCTGTGTGGGGGCTCTT 890
 QY 1886 TACAGGAGTCCGAGTTCGCTGCCCAACCCCTGCCAGCGTCGCCCTTCTGCGTGGAGC 1945
 DB 889 TACAGGAGTCCGAGTTCGCTGCCCAACCCCTGCCAGCGTCGCCCTTCTGCGTGGAGC 830
 QY 1946 AGTTGAAAAAGTGCGGTGGGTGGAGTGAAGTTTGGAGAGGAGCGCTGTGTTGCTATG 2005
 DB 829 AGTTGAAAAAGTGCGGTGGGTGGAGTGAAGTTTGGAGAGGAGCGCTGTGTTGCTATG 770
 QY 2006 TGGTGTGCTGTGTTCCCGGCAAGAAAAATTGCATCAATGTCAAGAGCTTTATATACC 2065
 DB 769 TGGTGTGCTGTGTTCCCGGCAAGAAAAATTGCATCAATGTCAAGAGCTTTATATACC 710
 QY 2066 TTAATCTTTCAGGGCCCTAAATTATAGAGAGTGTCTCTAGAGAGAGTTCATACAAAGGCTT 2125
 DB 709 TTAATCTTTCAGGGCCCTAAATTATAGAGAGTGTCTCTAGAGAGAGTTCATACAAAGGCTT 650
 QY 2126 TCTCTAAGACGGCTACAGACCCCTCTCTAGAGAGTTCATCAATGTCTCCCAAGAGCAGC 2185
 DB 649 TCTCTAAGACGGCTACAGACCCCTCTCTAGAGAGTTCATCAATGTCTCCCAAGAGCAGC 590
 QY 2186 TTGAAGAGATTGAGGTCAATGACCTTCCCACTGCGCTCAAGGGGCTGACCTTATTTAGAA 2245
 DB 589 TTGAAGAGATTGAGGTCAATGACCTTCCCACTGCGCTCAAGGGGCTGACCTTATTTAGAA 530
 QY 2246 ACCAAAGAGGGTGGGTGAACCTAATCTCAAGGAGCTTGGATCCAGTGCACACTTGCT 2305
 DB 529 ACCAAAGAGGGTGGGTGAACCTAATCTCAAGGAGCTTGGATCCAGTGCACACTTGCT 470
 QY 2306 GCGGAAAAAGGCTCTCCCAAGCACCAGGAGATGGGGGTAAAGAGAGAGCAGAGGCTTG 2365
 DB 469 GCGGAAAAAGGCTCTCCCAAGCACCAGGAGATGGGGGTAAAGAGAGAGCAGAGGCTTG 410
 QY 2366 GGGTGGGGTCACTGTGTGTTTAAACAGGACATTTCTCTTCTGTGGGGCTTATTTTGT 2425
 DB 409 GGGTGGGGTCACTGTGTGTTTAAACAGGACATTTCTCTTCTGTGGGGCTTATTTTGT 350
 QY 2426 CAGAACTAGACAGAGTGTGTAACCTCTCTTGAAGAGAGGGCTGGGAATCCCTTTAGAG 2485
 DB 349 CAGAACTAGACAGAGTGTGTAACCTCTCTTGAAGAGAGGGCTGGGAATCCCTTTAGAG 290
 QY 2486 CACTTAATCTATTATATCCCTGGAATGTGCTGTGGCAGATAGAGGGCTGGCTTTGG 2545
 DB 289 CACTTAATCTATTATATCCCTGGAATGTGCTGTGGCAGATAGAGGGCTGGCTTTGG 230
 QY 2546 CAGCTTCCCTGAACCCCGCGCTGCGCCCTCCGCGGTAAATGTGCAATTAATGCGCCACA 2605
 DB 229 CAGCTTCCCTGAACCCCGCGCTGCGCCCTCCGCGGTAAATGTGCAATTAATGCGCCACA 170
 QY 2606 GAGGTTTGAAGCAATCAGCTGAGACTGGGTTGAATGTAAAGACTTTAATTGGAT 2665

DB 169 GAGGTTTGAAGCAATCAGCTCTGAGACTGGGTAGATGTAAAGACTTTAATTGGAT 110
 QY 2666 TTAAGAGCTTTTAAAGGTAATATCTCTGAAAAGAAAAATGAGCTTAACAGAGCGCT 2725
 DB 109 TTAAGAGCTTTTAAAGGTAATATCTCTGAAAAGAAAAATGAGCTTAACAGAGCGCT 50
 QY 2726 ACTATGAAGCGTATTATTTATATAAGAACGCTGGGCGATGAACCTATA 2774
 DB 49 ACTATGAAGCGTATTATTTATATAAGAACGCTGGGCGATGAACCTATA 1

RESULT 6
 AAS93728
 ID AAS93728 standard; CDNA; 850 BP.

XX AAS93728;
 XX 13-FEB-2002 (first entry)
 XX
 XX DNA encoding novel human diagnostic protein #29532.

KW Human, chromosome mapping; gene mapping; gene therapy; forensic;
 KW Food supplement; medical imaging; diagnostic; genetic disorder; ss.
 OS Homo sapiens.

PN W0200175067-R2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US008631.

PR 31-MAR-2000; 2000US-00540217.

PR 23-AUG-2000; 2000US-00649167.

XX (HYSE-) HYSEQ INC.

PA Dmanac RT, Liu C, Tang YT;

DR WPI; 2001-639362/73.

DR P-PsDB; ABG29541.

PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensic, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity.

XX Claim 1; SEQ ID NO 29532; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
 CC sequences. (I) is useful as hybridization probes, polymerase chain
 CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
 CC and in recombinant production of (II). The polynucleotides are also used
 CC in diagnostics as expressed sequence tags for identifying expressed
 CC genes (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activity. The
 CC polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensic, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 850 BP; 116 A; 278 C; 340 G; 116 T; 0 U; 0 Other;

Query Match 24.0%; Score 748; DB 5; Length 850;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 848; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 716 CGGTAGGCGCCGAGGAGTCAACGACCAATGAAAGACCTTCTGCGCGCGCCCAAGCCG 775
 DB 1 CGGTAGGCGCCGAGGAGTCAACGACCAATGAAAGACCTTCTGCGCGCGCCCAAGCCG 60

QY 776 GGATGGGGGTAAAGCACAATCTGCGCGCTGAGGGGGAGGTAAAGGGCGCGCGCGCG 835
 DB 61 GGATGGGGGTAAAGCACAATCTGCGCGCTGAGGGGGAGGTAAAGGGCGCGCGCGCG 120

QY 836 GGCCAGCCGAGAGCCCAACCGGATGCGAGGAGAGAGAGTGCAGAGCGCTGCTGGA 895
 DB 121 GGCCAGCCGAGAGCCCAACCGGATGCGAGGAGAGAGAGTGCAGAGCGCTGCTGGA 180

QY 896 CAACAACAACAATGCGGTGCTACCAACCTGAGTGTGCTGACCTGGGTGCTGCGGAC 955
 DB 181 CAACAACAACAATGCGGTGCTACCAACCTGAGTGTGCTGACCTGGGTGCTGCGGAC 240

QY 956 GCAGAACCTGCGGAGAGAGTGAAGAAAGACGCGCAGAGAGGCGAGAGCTGCGGTGTC 1015
 DB 241 GCAGAACCTGCGGAGAGAGTGAAGAAAGACGCGCAGAGAGGCGAGAGCTGCGGTGTC 300

QY 1016 CACCTGCGCCGCGCTGACTGCTGCTGCGGACCGGCGCTGAGCCCGCAGAGCGGC 1075
 DB 301 CACCTGCGCCGCGCTGACTGCTGCTGCGGACCGGCGCTGAGCCCGCAGAGCGGC 360

QY 1076 CGAGTTGAGAGGCGCTGAGGGTGGCTTCTCGGGCTGCTGGAACCTGCTGGAAGGGA 1135
 DB 361 CGAGTTGAGAGGCGCTGAGGGTGGCTTCTCGGGCTGCTGGAACCTGCTGGAAGGGA 420

QY 1136 GCGACGCTGCTGAGAGTGGGCGCGCGCTTCCGCTGCAACGCGCGCGCGAGCTGAGT 1195
 DB 421 GCGACGCGCTGAGAGTGGGCGCGCGCTTCCGCTGCAACGCGCGCGCGAGCTGAGT 480

QY 1196 GCGCACAAGTGTGCTGCGCGCTCTCTCCGCGCTGCGCGCGCGCTGAGCACCCGAG 1255
 DB 481 GCGCACAAGTGTGCTGCGCGCTCTCTCCGCGCTGCGCGCGCGCTGAGCACCCGAG 540

QY 1256 CTTGCGGCTGAGAGCGAGGCGGACTTGAAGTGGCGGACCTGGGGAGAGCTGAGAGCG 1315
 DB 541 CTTGCGGCTGAGAGCGAGGCGGACTTGAAGTGGCGGACCTGGGGAGAGCTGAGAGCG 600

QY 1316 GGTCTTCAAGGTGGGCGAGATGATGCAACAATGAGTAAGAGTCAAGCTGAGCCCGCTG 1375
 DB 601 GGTCTTCAAGGTGGGCGAGATGATGCAACAATGAGTAAGAGTCAAGCTGAGCCCGCTG 660

QY 1376 GACCGTGCAGCCCGCGCAGCGCGCGCGCGAGCTCTGTCAACGCTCAAGCGCGCGCC 1435
 DB 661 GACCGTGCAGCCCGCGCAGCGCGCGCGCGAGCTCTGTCAACGCTCAAGCGCGCGCC 720

QY 1436 CTCTCGGTGCTGTCTTCTTGCAGAGAGCGGGGGGGGTGGCAACCCAGAGAGGCTTGGC 1495
 DB 721 CTCTCGGTGCTGTCTTCTTGCAGAGAGCGGGGGGGGTGGCAACCCAGAGAGGCTTGGC 780

QY 1496 GCGCAATCTTTTGGCGCGCGTGTGCTGCGCGAGCTTGAAGCGGTGTGCGTGTGCGAA 1555
 DB 781 GCGCAATCTTTTGGCGCGCGTGTGCTGCGCGAGCTTGAAGCGGTGTGCGTGTGCGAA 840

QY 1556 GCTGAGCTGA 1565
 DB 841 GCTGAGCTGA 850

RESULT 7
 ACH87504/c
 ID ACH87504 standard; DNA; 708 BP.

XX ACH87504; AC
 XX 29-JUN-2004 (first entry)
 XX

DE Human genome derived single exon probe #20699.
 XX Human; probe; ss; gene expression; single exon probe; microarray;
 KM alternative splicing event; genomic alteration.
 XX Homo sapiens.
 OS US2003194704-A1.
 PN 16-OCT-2003.
 PD 03-APR-2002; 2002US-00029386.
 PF 03-APR-2002; 2002US-00029386.
 PR 03-APR-2002; 2002US-00029386.
 XX
 PA (PENN/) PENN S G.
 PA (RANK/) RANK D R.
 PA (HANZ/) HANZEL D K.
 XX Penn SG, Rank DR, Hanzel DK;
 P1
 PI
 XX WPI; 2004-119264/12.
 DR
 XX
 PT New human genome-derived single exon nucleic acid probes useful for human
 PT gene expression analysis, for identifying or characterizing alternative
 PT splicing events, for assessing genomic alterations or as tools for
 PT surveying tissues.
 PT
 XX
 PS Claim 1; SEQ ID NO 20699; 80pp; English.
 XX
 XX The invention relates to a nucleic acid probe for measuring human gene
 CC expression, comprising any of the 27,400 fully defined nucleotide
 CC sequences in the specification, or their complements or fragments, and
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
 CC fully defined in the specification. The probe is a single exon probe that
 CC hybridises under high stringency conditions to a nucleic acid molecule
 CC expressed in human cells or tissues. Also included are a spatially-
 CC addressed set of single exon nucleic acid probes for measuring human
 CC gene expression (comprising a plurality of single exon nucleic acid
 CC probes cited above, where each of the plurality of probes is separately
 CC and addressably isolatable or amplifiable from the plurality), a single
 CC exon microarray for measuring human gene expression, a method of
 CC measuring human gene expression, a vector comprising the single exon
 CC probe cited above, an ORF-encoded peptide comprising at least 8
 CC contiguous amino acids of any of the above-mentioned amino acid
 CC sequences (optionally with conservative amino acid substitutions), an
 CC isolated antibody that binds specifically to a peptide cited above,
 CC methods of selling and/or licensing single exon probes or microarrays to
 CC a customer desiring to measure gene expression, a method of providing
 CC human gene expression data by subscription, and a computer-readable
 CC storage medium which contains a database having a plurality of records
 CC (each record including data on the expression of a single exon probe
 CC cited above. The probe, methods and apparatus are useful in gene
 CC expression analysis. The probes may be used as tools for surveying
 CC tissues to detect the presence of expressed messages that contain their
 CC specific exon, or in constructing genome-derived single exon microarrays.
 CC In addition, the probes are used in identifying and characterising
 CC alternative splicing events, in detecting and characterising gross
 CC alterations in the genomic locus that includes their exon, in assessing
 CC smaller genomic alterations, in printing the synthesis of nucleic acids,
 CC or in expressing the ORF-encoded peptide. The present sequence is a human
 CC single exon probe of the invention. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html?docID=20030194704
 CC
 XX
 SQ Sequence 708 BP; 104 A; 279 C; 231 G; 94 T; 0 U; 0 Other;

Query Match 21.0%; Score 657; DB 12; Length 708;
 Best Local Similarity 99.9%; Pred. No. 2,9e-296;
 Matches 707; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 858 ATGGCAGGAGGAGTGAAGAGCGCTGCTGAGCGGGCTCAACAAGACGACTGCTGTCTAC 917

Db	708	ATGCGGAGGAGGAGATGCAAGGCGCTGCTGGACGGGCTTCACAGACGACTGCGTGTAC	649
Qy	918	CACCACTGTGTCTGACCGTCTGGTGTCTCGGCGGACTCGCAGAACCTGCGCAGGAGCTG	977
Db	648	CACCACTGTGTCTGACCGTCTGGTGTCTCGGCGGACTCGCAGAACCTGCGCAGGAGCTG	589
Qy	978	CAAAAGACGCGCAGAGAGCGCAGAGAGCTGGCGGTGTCCACTGTGCGCCCGCTGACTGCT	1037
Db	588	CAAAAGACGCGCAGAGAGCGCAGAGAGCTGGCGGTGTCCACTGTGCGCCCGCTGACTGCT	529
Qy	1038	GTGCTGCGCGGACCGGGGCGCTGGCGCGCGACGAGAGCGCGCGAGTTTGAGACCGGCTGTGGGTG	1097
Db	528	GTGCTGCGCGGACCGGGGCGCTGGCGCGCGACGAGAGCGCGCGAGTTTGAGACCGGCTGTGGGTG	469
Qy	1098	GCGTTCTGGGCTGTGCTGGAACCTGTGTGAAAGCGACATGCGACGCTCGCTGGAAGTGGGC	1157
Db	468	GCGTTCTGGGCTGTGCTGGAACCTGTGTGAAAGCGACATGCGACGCTCGCTGGAAGTGGGC	409
Qy	1158	GCGCGGTTCCCGCTGCAAGCGCGCGCGCGGACCGCTGTGTGCGCAGAGTGTGTGGCTGGCGCC	1217
Db	408	GCGCGGTTCCCGCTGCAAGCGCGCGCGCGGACCGCTGTGTGCGCAGAGTGTGTGGCTGGCGCC	349
Qy	1218	TCTCTTCGGCGTGTGCGCGCGCGCGCGCTGAGCACCGCGACCTGTGCGCTGAGGCGGAGGCG	1277
Db	348	TCTCTTCGGCGTGTGCGCGCGCGCGCGCTGAGCACCGCGACCTGTGCGCTGAGGCGGAGGCG	289
Qy	1278	GACCTTCGACGTGCGGACCTTGCGGAGGCTGGAGCGCGGAGGTCCTTCAGGTGGCGGAGTGG	1337
Db	288	GACCTTCGACGTGCGGACCTTGCGGAGGCTGGAGCGCGGAGGTCCTTCAGGTGGCGGAGTGG	229
Qy	1338	ATCGACCACTGAGAGATGAAAGGTCAACGTGCGCCCGCTGGAACCGTGTCAAGCCCGGACGCG	1397
Db	228	ATCGACCACTGAGAGATGAAAGGTCAACGTGCGCCCGCTGGAACCGTGTCAAGCCCGGACGCG	169
Qy	1398	GCGGCGCGCCGAGCTCTGTGCCAGCGTCAAGCGCGCGCGCCCTCTCGGTGTGTCTTTCGAG	1457
Db	168	GCGGCGCGCCGAGCTCTGTGCCAGCGTCAAGCGCGCGCGCCCTCTCGGTGTGTCTTTCGAG	109
Qy	1458	GAGCGCGGGGGGGGTTGCGACCCCGAGGAAGGCGCTGGCGCGCGCATTCCTTTGGGGCGCGTG	1517
Db	108	GAGCGCGGGGGGGGTTGCGACCCCGAGGAAGGCGCTGGCGCGCGCATTCCTTTGGGGCGCGTG	49
Qy	1518	CTGCTGCGCGCTGTGCGCCCTGACCGCTGTGCGTGTGCGAGAGCTGAGCTGA	1565
Db	48	CTGCTGCGCGCTGTGCGCCCTGACCGCTGTGCGTGTGCGAGAGCTGAGCTGA	1
RESULT 8			
ACH73793/c			
ID	ACH73793	standard; DNA; 524 BP.	
XX	ACH73793;		
AC			
XX			
DT	29-JUL-2004	(first entry)	
XX			
DE		Human genome derived single exon probe #6988.	
XX			
KW		Human; probe; ss; gene expression; single exon probe; microarray;	
XX		alternative splicing event; genomic alteration.	
OS		Homo sapiens.	
XX			
PN	US2003194704-A1.		
PD	16-OCT-2003.		
XX			
PF	03-APR-2002; 2002US-00029386.		
XX			
PR	03-APR-2002; 2002US-00029386.		
XX			
PA	(PENN/) PENN S G.		
PA	(RANK/) RANK D R.		

Query Match	Best Local Similarity	Score 524;	DB 12;	Length 524;
Matches 524;	Conservative	100.0%;	Pred. No. 4,3e-224;	Indels 0; Gaps 0
484	CTCTGCAACCTGCTTGGCCCGAGATTGGCAACCAACGAGATGGGGACCGACCTCTACGC	543		
524	CTCTGCAACCTGCTTGGCCCGAGATTGGCAACCAACGAGATGGGGACCGACCTCTACGC	465		
544	TTTCGAGGAGACCACTGTGAGAGCCGAGGCGGTGAGAGACACGACGTGTGACTTGGAGT	603		
464	TTTCGAGGAGACCACTGTGAGAGCCGAGGCGGTGAGAGACACGACGTGTGACTTGGAGT	405		
604	GCGCTTGGGGAGATGATGACACGAGGAGCGGGGACCGCTTAAAGGGGCTCCCTTGTGGCGCC	663		
404	GCGCTTGGGGAGATGATGACACGAGGAGCGGGGACCGCTTAAAGGGGCTCCCTTGTGGCGCC	345		
664	CCGTCCTGAGAGAGCGCATGTGAGAGGATCCCGAGCGAGGCTTCGTTGAGCGTTTGGCGGTAGCG	723		
344	CCGTCCTGAGAGAGCGCATGTGAGAGGATCCCGAGCGAGGCTTCGTTGAGCGTTTGGCGGTAGCG	285		
724	CCGAGCGAGTCAACGAGCCATGAAAGCGCTTGTGTCCGCGCGAGCCCAAGGCGGAGATGAGCG	783		

Db 284 CCGAGCAGTGCACGACCATAGAGGCGTTGTCGCCGCCGCCCAAGCCGGGATG3GG 225
Qy 784 GTTAGCCACATCTCGCGCGCTGAGGGGAGGCTTAAAGGGGCGGGCGGGCCAGC 843
Db 224 GTTAGCCACATCTCGCGCGCTGAGGGGAGGCTTAAAGGGGCGGGCGGGCCAGC 165
Qy 844 CGAGCCCAACCGGAGATGCGAGGAGAGAGTGCAGAGCGCTCTGAGCGGCTCAACAGA 903
Db 164 CGAGCCCAACCGGAGATGCGAGGAGAGAGTGCAGAGCGCTCTGAGCGGCTCAACAGA 105
Qy 904 CGATGCGTGTCTACCACTCGTGTCTGACCTCGTGTGCTCGGCGGACTCGCAAGACC 963
Db 104 CGATGCGTGTCTACCACTCGTGTCTGACCTCGTGTGCTCGGCGGACTCGCAAGACC 45
Qy 964 TGGCGCAGAGCTGCAGAAAGACGCGCCGAGAGCGCGAGAGCTG 1007
Db 44 TGGCGCAGAGCTGCAGAAAGACGCGCCGAGAGCGCGAGAGCTG 1

RESULT 9
AAK62785/c
ID AAK62785 standard; cDNA. 973 BP.
XX AAK62785;
AC
XX
DT 06-NOV-2001 (first entry)
XX
DR Human immune/haematopoietic antigen encoding cDNA SEQ ID NO:7845.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytosolic; gene therapy; vaccine; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226273P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.

PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234224P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236357P.
PR 29-SEP-2000; 2000US-0236358P.
PR 29-SEP-2000; 2000US-0236359P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246533P.
PR 08-NOV-2000; 2000US-0246534P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.


```
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM,
XX
XX WPI: 2001-483426/52.
XX P-PSDB; AAM90004.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Claim 1; SEQ ID NO 7845; 3071bp + Sequence listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
XX amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
XX activity, and can be used in gene therapy and vaccine production. (I)
XX proteins and polynucleotides may be used in the prevention, diagnosis and
XX treatment of diseases associated with inappropriate (I) expression. For
XX example, they may be used to treat disorders associated with decreased
XX expression by rectifying mutations or deletions in a patient's genome
XX that affect the activity of (I) by expressing inactive proteins or to
XX supplement the patient's own production of (I). Additionally, (I)
XX polynucleotides may be used to produce the secreted (I), by inserting the
XX nucleic acids into a host cell and culturing the cell to express the
XX protein. (I) proteins and polynucleotides may be used to prevent,
XX diagnose and treat immune/hematopoietic-related diseases, especially
XX cancers and cancer metastases of hematopoietic-derived cells. AAK64703
XX to AAK87694 represent human immune/hematopoietic antigen genomic
XX sequences from the present invention. AAK54942 to AAK54950 and AAM82169
XX represent sequences used in the exemplification of the present invention
XX
XX Sequence 973 BP; 255 A; 253 C; 226 G; 234 T; 0 U; 5 Other;
SQ
Query Match 16.1%; Score 504; DB 4; Length 973;
Best Local Similarity 99.8%; Pred. No. 9.3e-225;
Matches 624; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1958 TGGGTGGGTGGAGTGAAGTTGGAGAGGAGCGCTTTGGTTCATATGCTGGTCTGT 2017
DB 817 TGGGTGGGTGGAGTGAAGTTGGAGAGGAGCGCTTTGGTTCATATGCTGGTCTGT 758
QY 2018 TTCCCGGACAAGAAAAATGCAATCAATGTGACGAGCTTTATTAACCTTAATCTTTCAG 2077
```

```
DB 757 TTCCCGGACAAGAAAAATGCAATCAATGTGACGAGCTTTATTAACCTTAATCTTTCAG 698
QY 2078 GGCCCTAATTTTAGAGAGATGTCTCGAGAGCACTTCATCAAAAGGCTTCTCTAGAGCC 2137
DB 697 GGCCCTAATTTTAGAGAGATGTCTCGAGAGCACTTCATCAAAAGGCTTCTCTAGAGAGC 638
QY 2138 GCTACAGCCCTTCTCGAGAGAGTTTATTCATTCGTCCCAAGAGAGAGCTAGAGAGATTT 2197
DB 637 GCTACAGCCCTTCTCGAGAGAGTTTATTCATTCGTCCCAAGAGAGAGCTAGAGAGATTT 578
QY 2198 GAGGTGATGACCTCCCACTGCGCTCAGAGGAGCTGACCTTATTTAGAAAACCAAGAGGCT 2257
DB 577 GAGGTGATGACCTCCCACTGCGCTCAGAGGAGCTGACCTTATTTAGAAAACCAAGAGGCT 518
QY 2258 GGGTTGAACCTTACTCTCAGAGACTTGGATTCAGTGGCACTTTCCTGCGGAAAAAGGCT 2317
DB 517 GGGTTGAACCTTACTCTCAGAGACTTGGATTCAGTGGCACTTTCCTGCGGAAAAAGGCT 458
QY 2318 TCTCCCGAGCACCCCGAGATGGGGGTAAAGAGAGACAGAGGCTTGGGGTAGGGCCAC 2377
DB 457 TCTCCCGAGCACCCCGAGATGGGGGTAAAGAGAGACAGAGGCTTGGGGTAGGGCCAC 398
QY 2378 CTGGTGTTTAAACA-GGCACCTTCTCTCTGAGGCTTATTTTGTTCAGAACTTAGAC 2436
DB 397 CTGGTGTTTAAACAAGGACATTTCTCTCTGAGGCTTATTTTGTTCAGAACTTAGAC 338
QY 2437 CAGAGTGTTTGAACCTCTCTTGCAGAGAGGCTGGGAATCTCTTTAGAGCACTTAATCT 2496
DB 337 CAGAGTGTTTGAACCTCTCTTGCAGAGAGGCTGGGAATCTCTTTAGAGCACTTAATCT 278
QY 2497 ATTATATCCCTGGAATGTGCGGCTGAGCCAGTAGGAGGAGGCTTGGAGCTCCCTGA 2556
DB 277 ATTATATCCCTGGAATGTGCGGCTGAGCCAGTAGGAGGAGGCTTGGAGCTCCCTGA 218
QY 2557 CCCCCGCGCTGCGCCGCCCTCCCGAG 2581
DB 217 CCCCCGCGCTGCGCCGCCCTCCCGAG 193
RESULT 10
AAK83430/C
ID AAK83430 standard; DNA; 476 BP.
XX
XX AAK83430;
XX
XX 07-NOV-2001 (first entry)
XX
XX Human immune/hematopoietic antigen genomic sequence SEQ ID NO:38242.
XX
XX Human; immune; hematopoietic; immune/hematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX
XX Homo sapiens.
XX
XX WO200157182-A2.
XX
XX 09-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184644P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205513P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
```


PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241221P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241826P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.
 PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246528P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246609P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.
 PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249246P.
 PR 17-NOV-2000; 2000US-0249264P.
 PR 17-NOV-2000; 2000US-0249265P.
 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 06-DEC-2000; 2000US-0251719P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-483426/52.
 DR
 XX
 XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and metastasis.
 PS
 XX
 PS Disclosure; SEQ ID NO 38239; 3071bp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAK62170 to AAK61921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and

CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK67694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK62169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 476 BP; 59 A; 190 C; 157 G; 70 T; 0 U; 0 Other;

Query Match 15.1%; Score 471; DB 4; Length 476;
 Best Local Similarity 100.0%; Pred. No. 2.5e-209; Indels 0; Gaps 0;
 Matches 471; Conservative 0; Mismatches 0;

QY 716 CGGTAGCCGCGAGGATCAAGACCATGAAAGAGCTTCGTGCGCGCGGCCCAAGGCG 775
 Db 476 CGTAGCCCGGAGGATCAAGACCATGAAAGAGCTTCGTGCGCGCGGCCCAAGGCG 417
 QY 776 GAGTGGGGTTAGCCACATCTCTGCGCGCTGAGGGGAGGCTTAAAGGCGCGGCGCG 835
 Db 416 GAGTGGGGGTTAGCCACATCTCTGCGCGCTGAGGGGAGGCTTAAAGGCGCGGCGCG 357
 QY 836 GGGCCGCGCGGAGCCGCGGAGTGGCGAGGAGGAGTGAAGGCGCTGTGACCGGGCT 895
 Db 356 GGGCCGCGGAGCCGCGGAGTGGCGAGGAGGAGTGAAGGCGCTGTGACCGGGCT 297
 QY 896 CAACAAGACGATGCGTGTACCAACACACTGTGTGTGACCGTGGTGGCTCGGCGGACTC 955
 Db 296 CAACAAGACGATGCGTGTACCAACACACTGTGTGTGACCGTGGTGGCTCGGCGGACTC 237
 QY 956 GCAGAACCTGCGGAGGAGCTGCAAAAGACCGCGCAGAGGCGCAGAGCTGGCGGTGTC 1015
 Db 236 GCAGAACCTGCGGAGGAGCTGCAAAAGACCGCGCAGAGGCGCAGAGCTGGCGGTGTC 177
 QY 1016 CACCTGGCGCGCGCTGACTGTGCTGTGCTGCGGACCGGGGCTTGGCGCGACGAGCGGCG 1075
 Db 176 CACCTGGCGCGCGCTGACTGTGCTGTGCTGCGGACCGGGGCTTGGCGCGACGAGCGGCG 117
 QY 1076 CGAGTTGAGCGGCTCTGGGTGGGCTTCTCGGCGTGTGCTGACCTGTGGAAGCGGACAT 1135
 Db 116 CGAGTTGAGCGGCTCTGGGTGGGCTTCTCGGCGTGTGCTGACCTGTGGAAGCGGACAT 57
 QY 1136 GCGACGCTGCTGAGAGCTGGAGCGCGCGGTTCCGCTGACAGCGCGCGGCGG 1186
 Db 56 GCGACGCTGCTGAGAGCTGGAGCGCGCGGTTCCGCTGACAGCGCGCGGCGG 6

RESULT 12
 AAK3426/c
 ID AAK83426 standard; DNA; 476 BP.

AC AAK83426;

XX 07-NOV-2001 (first entry)

XX Human immune/hematopoietic antigen genomic sequence SEQ ID NO:38238.

XX Human; immune; haematopoietic; immune/hematopoietic antigen; cancer;

XX cytoablastic; gene therapy; vaccine; metastasis; de.

OS Homo sapiens.

XX MO200157182-A2.

XX 09-AUG-2001.

XX 17-JAN-2001; 2001WO-US001354.

```
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225472P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226272P.
PR 22-AUG-2000; 2000US-0226881P.
PR 22-AUG-2000; 2000US-0226882P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234977P.
PR 25-SEP-2000; 2000US-0234988P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225472P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226272P.
PR 22-AUG-2000; 2000US-0226881P.
PR 22-AUG-2000; 2000US-0226882P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234977P.
PR 25-SEP-2000; 2000US-0234988P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
XX 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0237935P.
PR 13-OCT-2000; 2000US-0239337P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241825P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251865P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX
XX Roeseen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
```

XX Disclosure; SEQ ID NO 38238; 3071bp + Sequence Listing; English.
PS
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAK62170 to AAK61921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK67694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAK62169
CC represent sequences used in the exemplification of the present invention
XX

Seq Sequence 476 BP; 58 A; 191 C; 157 G; 70 T; 0 U; 0 Other;

Query Match 13.7%; Score 427; DB 4; Length 476;
Best Local Similarity 100.0%; Pred. No. 9.3e-189;
Matches 427; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 716 CGGTAGGCGCCGAGGAGTCAAGCAATGAAAGAGCGTTCCGCGCGCGCCCAAGGCGG 775
Db CGGTAGGCGCCGAGGAGTCAAGCAATGAAAGAGCGTTCCGCGCGCGCCCAAGGCGG 417
QY 776 GGATGGGGGTTAGCCACATCTCTGCGCGCTGAGGGGGAGAGGCTAACGGGGCGGGCGG 835
Db GGATGGGGGTTAGCCACATCTCTGCGCGCTGAGGGGGAGAGGCTAACGGGGCGGGCGG 357
QY 836 GGCCCAAGCCGAGAGCCCAACCGGATGGGAGGAGAGAGTGCAGAGCGCTGCTGACCGGCT 895
Db GGCCCAAGCCGAGAGCCCAACCGGATGGGAGGAGAGAGTGCAGAGCGCTGCTGACCGGCT 297
QY 896 CAACAGAGCACTGGGCTACCAACCACTGGGCTGACCGTGGTGGCTCGGAGGACTC 955
Db CAACAGAGCACTGGGCTACCAACCACTGGGCTGACCGTGGTGGCTCGGAGGACTC 237
QY 956 GCAGAACCTGCGGAGAGAGTGTCAAAAGACCGCCAGAGAGGCGAGAGCTGCGGTGTC 1015
Db GCAGAACCTGCGGAGAGAGTGTCAAAAGACCGCCAGAGAGGCGAGAGCTGCGGTGTC 177
QY 1016 CACCTGCGCCCGGCTGACTGTGTGCTGCGGACCGGGGCTTGCGCCCGACGAGCGCGC 1075
Db CACCTGCGCCCGGCTGACTGTGTGCTGCGGACCGGGGCTTGCGCCCGACGAGCGCGC 117
QY 1076 CGAATTGAGAGGAGCTTGGGTGGGCTTCTCGGGGCTGCTGGAACCTGCTGGAAGGCGAAT 1135
Db CGAATTGAGAGGAGCTTGGGTGGGCTTCTCGGGGCTGCTGGAACCTGCTGGAAGGCGAAT 57
QY 1136 GCGACGC 1142
Db GCGACGC 50

RESULT 13
AA572508/c
ID AA572508 standard; cDNA; 1349 BP.

XX AA572508;
XX 13-FEB-2002 (first entry)
XX
XX DNA encoding novel human diagnostic protein #8312.
XX
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.
XX
XX WO200175067-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US008631.
XX
XX 31-MAR-2000; 2000US-00540217.
XX
XX 23-AUG-2000; 2000US-00649167.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Dmanac RT, Liu C, Tang YT;
XX
XX WPI: 2001-639362/73.
XX
XX P-PSDB; ABG08321.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensic, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity.

Claim 1, SEQ ID NO 8312; 103bp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensic, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAK54197-AA594564 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at http://wipo.int/pub/publ/pct_sequences

Seq Sequence 1349 BP; 171 A; 472 C; 483 G; 223 T; 0 U; 0 Other;

Query Match 7.7%; Score 241; DB 5; Length 1349;
Best Local Similarity 100.0%; Pred. No. 7.8e-102;
Matches 241; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 902 GACGACTGCGTGTCAACCAACCTGCTGACCGCTGCGGTGCTCGGCGGACTCGCAGAA 961
Db GACGACTGCGTGTCAACCAACCTGCTGACCGCTGCGGTGCTCGGCGGACTCGCAGAA 343
QY 962 CTTGCGGAGAGAGCTGCAAAAGACCGCCAGAGAGCGCAGAGCTGCGGTGCTCACTTG 1021
Db CTTGCGGAGAGAGCTGCAAAAGACCGCCAGAGAGCGCAGAGCTGCGGTGCTCACTTG 283
QY 1022 CGCCGCGTGACTGCTGTGCTGCGGACCGGGGCTTGCGCCGACGAGCGCGCGAGTT 1081
Db CGCCGCGTGACTGCTGTGCTGCGGACCGGGGCTTGCGCCGACGAGCGCGCGAGTT 223
QY 1082 CGAGCGGCTCTGGGTGGCTTTCTTGCGGCTGCTGGAACCTGGAAGCGCAGATGCGACG 1141
Db CGAGCGGCTCTGGGTGGCTTTCTTGCGGCTGCTGGAACCTGGAAGCGCAGATGCGACG 163
QY 1142 C 1142
Db 162 C 162

RESULT 14

ABN50582
ID ABN50582 standard; DNA; 60 BP.

XX ABN50582;

DT 15-JUL-2002 (first entry)

XX Human spliced transcript detection oligonucleotide SEQ ID NO:23330.

XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

XX WO200210449-A2.

XX 07-FEB-2002.

XX 20-JUL-2001; 2001WO-1B001903.

XX 28-JUL-2000; 2000US-0221607P.

XX 02-MAY-2001; 2001US-0287724P.

XX (COMP-) COMPUGEN INC.

XX Shoshan A, Maeserman A, Mintz E, Mintz L, Faigler S;

XX WPI; 2002-257383/30.

XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of a
PT genome, useful for detecting tissue-, pathology-, and developmental-
PT specific genes.

XX Example 1; SEQ ID NO 23330; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the (sub-
CC)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises several
CC oligonucleotides, each capable of hybridizing selectively to a set of
CC messenger RNAs transcribed from a given transcription unit of the genome,
CC which encodes one or more messenger RNA splice variants. The
CC oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcripts. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a particular
CC biological or pathological state, and so allowing the detection of tissue
CC - and pathology-specific genes such as those genes only expressed in
CC specific tissue under a specific pathological condition; to detect
CC developmental specific genes; and to detect RNA transcripts and splice
CC variants of a transcriptome of a patient suffering from a particular
CC disorder. ABN27251 to ABN59589 represent oligonucleotide sequences from
CC rat, humans and mice, which are used in the exemplification of the
CC present invention. N.B. The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 60 BP; 11 A; 14 C; 16 G; 19 T; 0 U; 0 Other;

Query Match 1.9%; Score 60; DB 6; Length 60;

Best Local Similarity 100.0%; Pred. No. 3.5e-17;

Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2464 GGGCTGGGAATCTCTTTAGAGCACTTATCCATTTATCCCTGGAAATGCGGCTGG 2523

DB 1 GGGCTGGGAATCTCTTTAGAGCACTTATCCATTTATCCCTGGAAATGCGGCTGG 60

RESULT 15

ABK83571/C
ID ABK83571 standard; CDNA; 175737 BP.

XX ABK83571;

DT 14-AUG-2002 (first entry)

XX Human CDNA differentially expressed in granulocytic cells #142.

XX Human; ss; granulocytic cell; DNA chip; bacterial infection;

XX viral infection; parasitic infection; protozoal infection;

XX fungal infection; sterile inflammatory disease; psoriasis;

XX rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;

XX cardiac reperfusion injury; renal reperfusion injury; ARDS; adult
KW adult respiratory distress syndrome; inflammatory bowel disease;
KW Crohn's disease; ulcerative colitis; periodontal disease;
KW granulocyte activation; chronic inflammation; allergy.

XX Homo sapiens.

XX WO200228999-A2.

XX 11-APR-2002.

XX 03-OCT-2001; 2001WO-US030821.

XX 03-OCT-2000; 2000US-0237189P.

XX (GENE-) GENE LOGIC INC.

XX Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

XX WPI; 2002-435328/46.

XX Detecting granulocyte activation by detecting differential expression of
PT genes associated with granulocyte activation, which serves as diagnostic
PT markers that is useful for monitoring disease states and drug toxicity.

XX Claim 1; SEQ ID NO 142; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing the
CC expression level to an expression level in an unactivated GC, where
CC differential expression of Gs is indicative of GCA. Also included are
CC modulating (M2) GA by contacting GC with an agent that alters the
CC expression of at least one gene in Gs; (2) screening (M3) for an agent
CC capable of modulating GCA or an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease using the gene expression
CC profile; (3) detecting (M4) an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease, by detecting the level of
CC expression in a sample of the tissue of gene(s) from Gs, where the level
CC of expression of the gene is indicative of inflammation; (4) treating
CC (M5) an inflammation (especially chronic) or in a tissue, an allergic
CC response in a subject, exposure of a subject to a pathogen or sterile
CC inflammatory disease, by contacting a tissue having inflammation with an
CC agent that modulates the expression of gene(s) from Gs in the tissue. M1
CC is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful
CC for screening an agent capable of modulating GCA preferably in an
CC inflammation in a tissue; M4 is useful for detecting an inflammation
CC (especially chronic) in a tissue, an allergic response in a subject,
CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.
CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,
CC cardiac reperfusion injury, renal reperfusion injury, ARDS, adult
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's
CC disease, ulcerative colitis, periodontal disease, also bacterial
CC infection, viral infection, parasitic infection, protozoal infection,
CC fungal infection and M5 is useful for treating one of the above
CC conditions. The present sequence represents a gene differentially
CC expressed in granulocytes. Note: The sequence data for this patent did

CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

SO Sequence 175737 BP; 41985 A; 43790 C; 42407 G; 47555 T; 0 U; 0 Other;

Query Match 1.7%; Score 53; DB 6; Length 175737;

Best Local Similarity 100.0%; Pred. No. 4.9e-14;

Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2888 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 2940

Db 47829 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 47777

RESULT 16

ADL13596/C

ID ADL13596 standard; DNA; 175737 BP.

XX ADL13596;

DT 06-MAY-2004 (first entry)

XX Osteoarthritis-associated polymorphic nucleotide #128.

KM dg; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;

KM joint space narrowing; osteophyte development; joint pain;

KM osteoarthritis; SNP; single nucleotide polymorphism.

XX Homo sapiens.

XX W02003054166-A2.

XX 03-JUL-2003.

XX 19-DEC-2002; 2002WO-US041225.

XX 20-DEC-2001; 2001US-0342603P.

XX (INCY-) INCYTE GENOMICS INC.

XX Jones KA, Schaefer A;

XX WPI; 2003-559141/52.

XX Determining susceptibility of an individual to joint space narrowing,

PT osteophyte development and/or joint pain comprises identifying whether

PT the individual has at least one polymorphism in a polymucleotide encoding

PT a protein.

XX Disclosure; SEQ ID NO 128; 297bp; English.

XX The invention relates to a method of determining susceptibility of an
CC individual to joint space narrowing and/or osteophyte development and/or
CC joint pain comprising identifying whether the individual has at least one
CC polymorphism in a polymucleotide encoding at least one of the protein
CC listed in the specification. The methods, composition and agent are
CC useful for modulating the susceptibility of an individual to joint space
CC narrowing and/or osteophyte development and/or joint pain that is
CC associated with a disease, preferably osteoarthritis. The cell line and
CC the non-human animal are useful for screening for an agent for diagnosing
CC an individual having susceptibility to joint space narrowing and/or
CC osteophyte development and/or joint pain. This sequence corresponds to
CC the polymucleotide encoding a protein listed in the specification. (Note:
CC The sequence data for this patent did not form part of the printed
CC specification but was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences).

XX Sequence 175737 BP; 41985 A; 43790 C; 42407 G; 47555 T; 0 U; 0 Other;

Query Match 1.7%; Score 53; DB 10; Length 175737;

Best Local Similarity 100.0%; Pred. No. 4.9e-14;

Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2888 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 2940

Db 47829 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 47777

RESULT 17

ADQ18934/C

ID ADQ18934 standard; DNA; 175737 BP.

XX ADQ18934;

DT 26-AUG-2004 (first entry)

XX Human soft tissue sarcoma-upregulated DNA - SEQ ID 1753.

KM soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;

KM dg.

XX Homo sapiens.

XX W02004048938-A2.

XX 10-JUN-2004.

XX 26-NOV-2003; 2003WO-US038193.

XX 26-NOV-2002; 2002US-0429739P.

XX (PROT-) PROTEIN DESIGN LABS INC.

XX Aziz N, Ginsburg WM, Zlotnik A;

XX WPI; 2004-441208/41.

XX Early detection of soft tissue sarcoma comprises determining expression

PT of a gene in a first soft tissue sample and a normal soft tissue sample

PT and comparing the gene expression, also useful in treating soft tissue

PT sarcoma.

XX Example 2; SEQ ID NO 1753; 210bp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma
CC which comprises obtaining a first soft tissue sample from an individual
CC and a normal soft tissue sample from the same or different individual,
CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytostatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC DNA of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.

XX Sequence 175737 BP; 41985 A; 43790 C; 42407 G; 47555 T; 0 U; 0 Other;

Query Match 1.7%; Score 53; DB 12; Length 175737;

Best Local Similarity 100.0%; Pred. No. 4.9e-14;

Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2888 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 2940

Db 47829 TGAGGCAAGTGGATCACTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACAT 47777

RESULT 18

AAC03795/C

ID AAC03795 standard; cDNA; 381 BP.

XX AAC03795;

XX AAC03795;

DT 06-OCT-2000 (first entry)
XX
DE Human secreted protein 5' EST, SEQ ID NO: 3793.
XX
KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KM gene therapy; chromosome mapping; ss.
XX
OS Homo sapiens.
XX
PN EP1033401-A2.
XX
PD 06-SEP-2000.
XX
PF 21-FEB-2000; 2000EP-00200610.
XX
PR 26-FEB-1999; 99US-0122487P.
XX
PA (GENSET).
XX
PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
DR WPI: 2000-500381/45.
DR P-PSDB; AAG03789.
XX
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS Claim 1; SEQ ID NO 3793; 71bp + Sequence Listing; English.
XX
CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
CC derived from 30 different tissues. EST sequences usually correspond
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
CC well suited for isolating cDNA sequences derived from the 5' ends of
CC mRNAs and even in those cases where longer cDNA sequences have been
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
CC mRNAs with intact 5' ends and can therefore be used to obtain full length
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures. They are used to obtain
CC upstream regulatory sequences and to design expression and secretion
CC vectors
XX
SQ Sequence 381 BP; 73 A; 98 C; 84 G; 123 T; 0 U; 3 Other;
XX
Query Match 1.7%; Score 52; DB 3; Length 381;
Best Local Similarity 100.0%; Pred. No. 1.8e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 3071 CAAGATTGTGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 3122
DB 107 CAAGATTGTGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 56
XX
RESULT 19
AA578337/c
ID AA578337 standard; cDNA; 1437 BP.
XX
AC AA578337;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #14141.
XX
KM Human; chromosome mapping; gene mapping; gene therapy; forensic;
KM food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX

PD 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US0008631.
XX
PF 31-MAR-2000; 2000US-00540217.
XX
PR 23-AUG-2000; 2000US-00649167.
XX
XX (HYSB-) HYSEQ INC.
XX
PI Dymnac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
DR P-PSDB; ABG14150.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX
PS Claim 1; SEQ ID NO 14141; 103bp; English.
XX
XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC activity of (II) or to treat disease states involving (II). (II) is
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful for treating disorders
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
CC coding sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp://wipo.int/pub/published_pct_sequences
XX
SQ Sequence 1437 BP; 282 A; 398 C; 395 G; 362 T; 0 U; 0 Other;
XX
Query Match 1.7%; Score 52; DB 5; Length 1437;
Best Local Similarity 100.0%; Pred. No. 1.7e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 3071 CAAGATTGTGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 3122
DB 243 CAAGATTGTGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 192
XX
RESULT 20
AA106207/c
ID AA106207 standard; DNA; 9620 BP.
XX
AC AA106207;
XX
DT 21-NOV-2001 (first entry)
XX
DE Human reproductive system related antigen DNA SEQ ID NO: 8895.
XX
KM Human; reproductive system related antigen; reproductive system disorder;
KM cancer; gene therapy; ds.
XX
OS Homo sapiens.
XX
PN WO200155320-A2.
XX
PD 02-AUG-2001.
XX

PT used in preventing, treating or ameliorating a medical condition.
XX
PS Disclosure; SEQ ID NO 8895; 1297pp + Sequence listing; English.
XX
CC The present invention provides the protein and coding sequences of a
CC number of human reproductive system related antigens. These can be used
CC in the prevention and treatment of reproductive system disorders,
CC including cancer. The present sequence is a genomic sequence encoding a
CC protein of the invention
SQ Sequence 9620 BP; 2586 A; 2358 C; 2358 G; 2318 T; 0 U; 0 Other;
Query Match 1.7%; Score 52; DB 4; Length 9620;
Best Local Similarity 100.0%; Pred. No. 1.6e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3071 CAAGATTGCGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122
Db 7058 CAAGATTGCGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 7007
RESULT 21
AAD31364
ID AAD31364 standard; DNA; 92139 BP.
XX
AC AAD31364;
XX
DT 31-MAY-2002 (first entry)
XX
XX 92Kb gene fragment in human chromosome 17 at 17q21.
DE
XX
XX Human; Van Buchem's disease; genomic deletion; craniofacial hypertosis;
KW autosomal recessive disorder; chromosome 17; chromosome 17q21;
KW bone dysplasia; 92Kb gene fragment; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_feature 5799..57515
FT /*tag= a
FT /note= "This region is deleted in individuals afflicted
FT or carriers of Van Buchem's disease"
XX
XX WO200210455-A2.
XX
XX 07-FEB-2002.
PD
XX
XX 30-JUL-2001; 2001WO-US023968.
PF
XX
XX 28-JUL-2000; 2000US-0221855P.
PR
XX 06-JUL-2001; 2001US-030386P.
PR
XX
XX (CELL-) CELLTECH R & D INC.
PA (STRA-) STRAHLING HAMPTON K.
XX
PI Brunkow ME, Proll S, Paepfer B;
XX
XX WPI; 2002-227089/28.
DR
XX
XX Methods for identifying subjects who are afflicted with or carriers of
XX diseases associated with genomic deletion(s), e.g. Van Buchem's disease,
XX by determining the presence of a deletion in the 92 kb region of human
XX chromosome 17 at 17q21.
XX
XX Claim 14; Page 45-72; 109pp; English.
XX
XX The present invention relates to methods for distinguishing between
XX individuals homozygous for and therefore afflicted with Van Buchem's
XX disease, individuals heterozygous for and therefore carriers of Van
XX Buchem's disease and individuals who are not afflicted with Van Buchem's
XX disease comprising identifying a large genomic deletion in chromosome 17 at
XX 17q21. The method is useful for identifying individuals who are afflicted
XX with or carriers of diseases associated with one or more genomic

CC deletion, particularly Van Buchem's disease, which is a rare autosomal
CC recessive disorder that results in a bone dysplasia referred to a
CC craniofacial hypertosis. The present sequence is a 92Kb gene fragment in
CC human chromosome 17 at 17q21
SQ Sequence 92139 BP; 23017 A; 22243 C; 23264 G; 23612 T; 0 U; 3 Other;
Query Match 1.7%; Score 52; DB 6; Length 92139;
Best Local Similarity 100.0%; Pred. No. 1.5e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2889 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 2940
Db 85294 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 85345
RESULT 22
ADFL1613/C
ID ADFL1613 standard; DNA; 130320 BP.
XX
XX ADFL1613;
XX
XX 12-FEB-2004 (first entry)
XX
XX Human sclerostin gene region.
DE
XX
XX ds; osteopathic; gene therapy; bone mineral density;
KW sclerostin gene region; osteoporosis; osteopenia; bone dysplasia;
KW bone fracture.
XX
XX Homo sapiens.
XX
FH Key Location/Qualifiers
FT variation replace(4103,G)
FT /*tag= a
FT replace(10357,T)
FT /*tag= b
FT variation replace(10565..10566,AGGAC)
FT /*tag= c
FT replace(117966,G)
FT /*tag= d
FT replace(18293,G)
FT /*tag= e
FT variation replace(58083,C)
FT /*tag= f
FT variation replace(74235,G)
FT /*tag= g
FT variation replace(91068,G)
FT /*tag= h
XX
XX WO2003087763-A2.
XX
XX 23-OCT-2003.
PD
XX
XX 03-APR-2003; 2003WO-US010649.
PF
XX
XX 03-APR-2002; 2002US-0370088P.
PR
XX
XX (CELL-) CELLTECH R & D INC.
PA (UYRO-) UNIV ROTTERDAM ERASMUS.
XX
PI Brunkow ME, Chamley PR, Proll S, Paepfer BW, Uitterlinden AG;
XX
XX WPI; 2003-833790/77.
DR
XX
XX Determining a risk for or presence of altered bone mineral density (e.g.
XX osteoporosis) in a subject comprises determining the presence or absence
XX of a sclerostin gene region nucleotide polymorphism in a biological
XX sample from a subject.
XX
XX Claim 21; SEQ ID NO 1; 114pp; English.
XX
XX The invention relates to a method of determining a risk for or presence

CC of altered bone mineral density (BMD) in a subject by determining the
CC presence or absence of at least one sclerostin gene region nucleotide
CC polymorphism in a biological sample from a subject where the presence of
CC at least one polymorphism at a position that corresponds to a non-coding
CC region of the 130320 bp sclerostin gene region (SOST) indicates an
CC increased risk of altered BMD. The composition and methods are useful in
CC determining a risk for having, or presence of, altered bone
CC mineral density, such as osteoporosis, osteopenia, bone dysplasia, bone
CC fracture or other conditions characterized by decreased or increased bone
CC density. These may also be used in identifying agents that may be used
CC for treating the above diseases, disorders or conditions associated with
CC altered BMD. In addition, these may be used for pharmaceutical purposes,
CC e.g. to stratify patient populations according to suitability of a
CC particular therapeutic agent for use in the population. This sequence
CC corresponds to the human sclerostin gene region.

XX Sequence 130320 BP; 33204 A; 32954 C; 31896 G; 32253 T; 0 U; 13 Other;

Query Match 1.7%; Score 52; DB 10; Length 130320;
Best Local Similarity 100.0%; Pred. No. 1.4e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GY 2889 GAGGACGGTGCATCACTGAGGCCAGAGTTCCAGACCAAGCTGCGCAACAT 2940
DB 23819 GAGGACGGTGCATCACTGAGGCCAGAGTTCCAGACCAAGCTGCGCAACAT 23768

RESULT 23

ADG86300
ID ADG86300 standard; DNA; 220756 BP.

XX AC
XX ADG86300;

DT 11-MAR-2004 (first entry)

XX DE Human SMRT partial genomic DNA sequence SEQ ID NO:14.

XX KM SMRT; silencing mediator for retinoid and thyroid hormone action;

KM SMRT inhibitor; cytostatic; antiinflammatory; antitachytic;

KM antirheumatic; antisense therapy; inflammatory disorder;

KM rheumatoid arthritis; hyperproliferative disorder; cancer; leukaemia;

KM breast cancer; human; gene; de.

XX OS Homo sapiens.

XX PN WO2003106645-A2.

XX PD 24-DEC-2003.

XX PF 17-JUN-2003; 2003WO-US018923.

XX PR 17-JUN-2002; 2002US-00174014.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Bennett CF, Freier SM, Dobie KW;

XX DR WPI, 2004-082184/08.

XX GENBANK; NT_009459.

XX PT Novel antisense compound targeted to nucleic acid encoding SMRT

PT (silencing mediator for retinoid and thyroid hormone action), useful for

PT treating animal having disease associated with SMRT such as cancer,

PT rheumatoid arthritis.

XX Example 15; SEQ ID NO 14; 260bp; English.
XX The present invention describes a compound (I) 8-50 nucleobases in length
XX targeted to a nucleic acid molecule encoding SMRT (silencing mediator for
XX retinoid and thyroid hormone action), where (I) specifically hybridises
XX with the nucleic acid molecule encoding SMRT and inhibits expression of
XX SMRT. (I) specifically hybridises with at least 8-nucleobase portion of a
XX preferred target region on nucleic acid molecule encoding SMRT. Also

CC described is a composition (II) comprising (I) and a carrier or diluent.
CC (I) and (II) have cytostatic, antiinflammatory, antitachytic and
CC antirheumatic activities, and can be used in antisense therapy, and as
CC SMRT expression inhibitors. (I) is useful for inhibiting the expression
CC of SMRT in cells or tissues. (I) is also useful for treating an animal
CC having a disease or condition associated with SMRT, e.g., inflammatory
CC disorder such as rheumatoid arthritis; or a hyperproliferative disorder
CC such as cancer chosen from leukaemia and breast cancer, by inhibiting the
CC expression of SMRT. (I) is useful for diagnostics, therapeutics,
CC prophylaxis and as research reagents and kits. The present sequence
CC represents a partial genomic DNA sequence of human SMRT, which is used in
CC an example from the present invention. N.B. The present sequence is
CC designated as SEQ ID NO:12 in example 15 but corresponds to SEQ ID NO:14
CC in the Sequence Listing.

XX Sequence 220756 BP; 42894 A; 60607 C; 65347 G; 51195 T; 0 U; 713 Other;

Query Match 1.7%; Score 52; DB 12; Length 220756;
Best Local Similarity 100.0%; Pred. No. 1.4e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GY 3071 CAAGATTGTGCACTGCACTCCAGCCCTGGGCAACAGAGCAAGACTGTCTC 3122
DB 172979 CAAGATTGTGCACTGCACTCCAGCCCTGGGCAACAGAGCAAGACTGTCTC 173030

RESULT 24

ACN44282
ID ACN44282 standard; DNA; 233380 BP.

XX AC
XX ACN44282;

DT 18-NOV-2004 (first entry)

XX DE Human genomic sequence hCG25303.

XX KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

XX OS Homo sapiens.

XX PN WO2003073826-A2.

XX PD 12-SEP-2003.

XX PF 28-FEB-2003; 2003WO-US006235.

XX PR 01-MAR-2002; 2002US-00087192.

XX PA (SAGR-) SAGRES DISCOVERY.

XX PI Morris DW;

XX DR WPI, 2003-328604/31.

XX PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma

PT comprises a nucleotide sequence.

XX Claim 1; SEQ ID NO 652; Opp; English.

XX The present invention relates to novel DNA and protein sequences which

XX are associated with carcinomas. The sequences are useful for: (i) for

XX screening drug candidates; (ii) for screening of bioactive agent capable

XX of binding to CarcinoMa Associated Protein (CAP); (iii) for screening of

XX a bioactive agent capable of modulating the activity of CAP; (iv) for

XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biotchip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining CarcinoMa Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published

XX	Seq	Sequence	233380	BP; 44357 A; 63089 C; 67702 G; 51928 T; 0 U; 6304 Other;
XX	Query Match		1.7%;	Score 52; DB 11; Length 233380;
XX	Best Local Similarity		100.0%;	Pred. No. 1.4e-13;
XX	Matches	52; Conservative	0; Mismatches	0; Indels 0; Gaps 0
OY	3071	CAGAGTTGCGCACTGCACTCCAGCCCTGG3CAACAGAGCAAGACTCTGTCTC	3122	
Db	179881	CAGAGTTGCGCACTGCACTCCAGCCCTGG3CAACAGAGCAAGACTCTGTCTC	179932	
RESULT 25				
AAFP21833/c				
ID	AAFP21833	standard; DNA; 832	BP.	
XX				
XX	AAFP21833;			
DT	27-MAR-2001	(first entry)		
XX				
DE	Human breast and ovarian cancer associated antigen gene SEQ ID 220.			
XX				
KW	Human; breast cancer; ovarian cancer; cytosratic; immunosuppressive;			
KW	nootropic; neuroprotective; antiviral; antiallergic; hepatotropic;			
KM	antidiabetic; antiinflammatory; antitumor; antitumor; anticonvulsant;			
KW	antibacterial; antifungal; antiparasitic; cardiac; immune disorder;			
KW	Addison's disease; allergy; autoimmune hemolytic anaemia;			
KW	autoimmune thyroiditis; diabetes mellitus; Crohn's disease;			
KW	multiple sclerosis; rheumatoid arthritis; ulcerative colitis;			
KW	cardiovascular disorder; wound healing; neurological disease; ds.			
OS	Homo sapiens.			
XX				
PN	WO20005173-A1.			
XX				
PD	21-SEP-2000.			
XX				
XX	08-MAR-2000; 2000WO-US005881.			
XX				
PR	12-MAR-1999; 99US-0124270P.			
XX				
PA	(HUMA-) HUMMAN GENOME SCI INC.			
XX				
PI	Rosen CA, Ruben SM;			
XX				
DR	WPI: 2000-611515/58.			
DR	P-PSDB: AAB58930.			
XX				
PT	New human breast and ovarian cancer associated gene sequences and the			
PT	polypeptides encoded by these genes, useful in the prevention, treatment			
PT	and diagnosis of cancer, immune disorders, cardiovascular disorders and			
PT	neurological diseases.			
PS	Claim 1; Page 646-647; 1299P; English.			
XX				
XX	Sequences AAF21614 - AAF22031 represent DNA sequences encoding human			
CC	proteins AAB58711 - AAB59128. The DNA and protein sequences are			
CC	associated with breast and ovarian cancer. Included in the invention are			
CC	sequences AAF22032 - AAF22040 and AAB59129 which are used in the			
CC	isolation and characterization of the DNA and protein sequences of the			
CC	invention. The breast and ovarian cancer associated DNA, protein, agonist,			
CC	or antagonist sequences exhibit cytosratic; immunosuppressive; nootropic;			
CC	neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic;			
CC	antiinflammatory; antitumor; antitumor; anticonvulsant; antibacterial;			
CC	antifungal; antiparasitic and cardiac activity. The polynucleotide and			
CC	protein sequences are used in the diagnosis of cancer, particularly			
CC	breast and ovarian cancer. The nucleic acid sequences, proteins, agonists			
CC	and agonists may also be used in the diagnosis, prevention and treatment			
CC	of immune disorders e.g. Addison's disease, allergies, autoimmune			
CC	hemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's			
CC	disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis;			
CC	cardiovascular disorders such as myocardial ischaemia; wound healing;			
CC	neurological diseases such as cerebral anoxia and epilepsy; and			

CC Infectious diseases
XX
SQ Sequence 832 BP, 224 A, 171 C, 178 G, 257 T, 0 U, 2 Other;
Query Match 1.6%; Score 51; DB 3; Length 832;
Best Local Similarity 100.0%; Pred. No. 5.1e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2890 AGGCAAGGTGATCACTGAGGCCAGAGATTGAGACCAAGCCTGGCCAACAT 2940
DB 76 AGGCAAGGTGATCACTGAGGCCAGAGATTGAGACCAAGCCTGGCCAACAT 26
RESULT 26
AAS93730
ID AAS93730 standard; cDNA; 2791 BP.
XX
AC AAS93730;
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #29534.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
OS Homo sapiens.
XX
PN WO200175067-A2.
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US008631.
XX
PR 31-MAR-2000; 2000US-00540217.
PR 23-AUG-2000; 2000US-00649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Dmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
XX
DR P-PSDB; ABG29543.
XX
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX
XX
PS Claim 1; SEQ ID NO 29534; 1033p; English.
XX
CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
XX sequences. (I) is useful as hybridisation probes, polymerase chain
XX reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC activity of (II) or to treat disease states involving (II). (II) is
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
CC coding sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

SQ Sequence 2791 BP; 559 A; 763 C; 784 G; 685 T; 0 U; 0 Other;
Query Match 1.6%; Score 51; DB 5; Length 2791;
Best Local Similarity 100.0%; Pred. No. 4,9e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 465 CCTAAGCGGAGCGCGGCTCTGCAAGCTTGTCCCGGAGTTGGCACC 515
DB 1538 CCTAAGCGGAGCGCGGCTCTGCAAGCTTGTCCCGGAGTTGGCACC 1588
RESULT 27
AEA6112/c
ID AEA6112 standard; DNA; 23139 BP.
XX
AC AEA6112;
XX
DT 25-AUG-2005 (first entry)
XX
DE Human SLC26A2 gene genomic sequence SEQ ID NO:22.
XX
KW DNA methylation; biomarker; cancer; gene; ds; SLC26A2.
XX
OS Homo sapiens.
XX
PN US2005130172-A1.
XX
PD 16-JUN-2005.
XX
PF 27-JAN-2004; 2004US-00765790.
XX
PR 16-DEC-2003; 2003US-00737082.
XX
PA (FARB) BAYER CORP.
XX
PI Beard C, Burgess C, Gannon A, Harvey J, Lechner JF, Li Z,
DR WPI; 2005-456591/46.
XX GEMBANK; A1025519.
PT Identifying nucleic acid sequences as biomarker for disease, by
PT identifying nucleic acid sequences comprising methylated CpG site and
PT down-regulated in diseased cells and comparing its expression level with
PT methylated nucleic acid.
XX
PS Claim 11; SEQ ID NO 22; 27pp; English.
XX
CC The invention relates to a method (M1) for identifying one or more
CC nucleic acid sequences useful as a biomarker for a disease to be
CC detected. (M1) involves identifying nucleic acid sequences comprising
CC methylated CpG site in promoter-first exon region and that are down-
CC regulated in diseased cells, comparing expression level of nucleic acid
CC sequences with that of demethylated nucleic acid sequences and
CC identifying nucleic acid sequences exhibiting increase in expression
CC after demethylation. Also described: (1) detecting (M2) the presence or
CC stage of a disease in a subject, which involves determining the degree of
CC methylation of one or more CpG sites on nucleic acid sequences in a
CC biological sample obtained from the subject, and determining the presence
CC of, predisposition to, or stage of the disease in the subject based on
CC the degree of methylation; (2) monitoring the onset, progression, or
CC regression of a disease in a subject; (3) determining the efficacy of a
CC test compound for inhibiting a disease in a subject; and (4) a kit (I)
CC useful for diagnosis, prognosis, staging, monitoring, and therapeutic
CC treatment of a disease. (M1) is useful for identifying one or more
CC nucleic acid sequences useful as a biomarker for a disease to be
CC detected, where the nucleic acid sequences are useful for detecting, the
CC presence or stage of a disease such as cancer e.g. colorectal cancer in a
CC subject. The present sequence represents a specifically claimed human
CC genomic sequence for use in the method of the invention. Note - The
CC sequence data for this patent is not represented in the printed
CC specification but was obtained in electronic format from the USPTO web
XX site.

SQ Sequence 23139 BP; 6124 A; 4783 C; 4952 G; 7280 T; 0 U; 0 Other;
Query Match 1.6%; Score 51; DB 14; Length 23139;
Best Local Similarity 100.0%; Pred. No. 4,5e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2890 AGGCAAGTGATGACCTGAGGCCAGAGTTGAGACCAAGCTGACCAACT 2940
DB 3783 AGGCAAGTGATGACCTGAGGCCAGAGTTGAGACCAAGCTGACCAACT 3733
RESULT 28
AAK67239
ID AAK67239 standard; DNA; 30393 BP.
XX
AC AAK67239;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22051.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227709P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.

[illegible]

XX	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249224P.
PR	17-NOV-2000;	2000US-0249245P.
PR	17-NOV-2000;	2000US-0249264P.
PR	17-NOV-2000;	2000US-0249265P.
PR	17-NOV-2000;	2000US-0249297P.
PR	17-NOV-2000;	2000US-0249299P.
PR	17-NOV-2000;	2000US-0249300P.
PR	01-DEC-2000;	2000US-0250160P.
PR	01-DEC-2000;	2000US-0250391P.
PR	05-DEC-2000;	2000US-0251030P.
PR	05-DEC-2000;	2000US-0251988P.
PR	05-DEC-2000;	2000US-0256719P.
PR	06-DEC-2000;	2000US-0251747P.
PR	08-DEC-2000;	2000US-0251856P.
PR	08-DEC-2000;	2000US-0251868P.
PR	08-DEC-2000;	2000US-0251869P.
PR	08-DEC-2000;	2000US-0251989P.
PR	08-DEC-2000;	2000US-0251990P.
PR	11-DEC-2000;	2000US-0254097P.
PR	05-JAN-2001;	2001US-0259678P.
XX	(HUMA-) HUMAN GENOME SCI INC.	
PA	Rosen CA, Barash SC, Ruben SM;	
XX	WPI; 2001-4693426/52.	
DR	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,	
PT	useful for preventing, diagnosing and/or treating cancers and metastasis.	
XX	Disclosure; SEQ ID NO 22051; 3071bp + sequence listing; English.	
PS	AAX54951 to AAK64702 encode the human immune/hematopoietic antigen (I)	
CC	amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic	
CC	activity, and can be used in gene therapy and vaccine production. (I)	
CC	proteins and polynucleotides may be used in the prevention, diagnosis and	
CC	treatment of diseases associated with inappropriate (I) expression. For	
CC	example, they may be used to treat disorders associated with decreased	
CC	expression by rectifying mutations or deletions in a patient's genome	
CC	that affect the activity of (I) by expressing inactive proteins or to	
CC	supplement the patients own production of (I). Additionally, (I)	
CC	polynucleotides may be used to produce the secreted (I), by inserting the	
CC	nucleic acids into a host cell and culturing the cell to express the	
CC	protein. (I) proteins and polynucleotides may be used to prevent,	
CC	diagnose and treat immune/hematopoietic-related diseases, especially	
CC	cancers and cancer metastases of hematopoietic-derived cells. AAK64703	
CC	to AAK87694 represent human immune/hematopoietic antigen genomic	
CC	sequences from the present invention. AAK54942 to AAK54950 and AAM82169	
CC	represent sequences used in the exemplification of the present invention	
XX	Sequence 30393 BP; 8271 A; 7315 C; 8076 G; 6731 T; 0 U; 0 Other;	
QY	Query Match	1.6%; Score 51; DB 4; Length 30393;
Dn	Best Local Similarity	100.0%; Pred. No. 4.5e-13;
	Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
	3071 CAAGATTGTGCCCACTGCACTTCACGCTTGCGCAACAAGACAAACTGTCTT 3121	
	24742 CAAGATTGTGCCCACTGCACTTCACGCTTGCGCAACAAGACAAACTGTCTT 24792	
RESULT 29		
ID	ADX80722/c	
XX	ADX80722 standard; DNA; 68200 BP.	
XX	ADX80722;	
AC		
DT	05-MAY-2005 (first entry)	
XX		
DE	Human mannose receptor C type 2 (ENDO180) genomic DNA.	
XX		

KW melanoma; DNA polymorphism; SNP detection; cytostatic; gene therapy; SNP;
 KW single nucleotide polymorphism; gene; ds; chromosome 17.
 XX
 OS Homo sapiens.

PH	Key	Location/Qualifiers
FT	variation	224
FT		/*cag= a
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		1874
FT		/*cag= b
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		2215
FT		/*cag= c
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		7585
FT		/*cag= d
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		8025
FT		/*cag= e
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		8687
FT		/*cag= f
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		12603
FT		/*cag= g
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		13885
FT		/*cag= h
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		14838
FT		/*cag= i
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		15269
FT		/*cag= j
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		16727
FT		/*cag= k
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		18388
FT		/*cag= l
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		18792
FT		/*cag= m
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		19195
FT		/*cag= n
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		19925
FT		/*cag= o
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		19949
FT		/*cag= p
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		20900
FT		/*cag= q
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		21847
FT		/*cag= r
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		22454
FT		/*cag= s
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		24193
FT		/*cag= t
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		26825
FT		/*cag= u
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		28667
FT		/*cag= v
FT	variation	/standard_name= "Single nucleotide polymorphism"
FT		32261

PT	/+tag= w	"Single nucleotide polymorphism"
FT	/standard_name=	
FT	32268	
PT	/+tag= x	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	32873	
PT	/+tag= y	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	35165	
FT	/+tag= z	
FT	/standard_name=	"Single nucleotide polymorphism"
PT	35449	
FT	/+tag= aa	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	36833	
PT	/+tag= ab	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	36952	
FT	/+tag= ac	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	37964	
PT	/+tag= ad	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	39654	
PT	/+tag= ae	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	39707	
PT	/+tag= af	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	40072	
PT	/+tag= ag	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	41164	
PT	/+tag= ah	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	41767	
PT	/+tag= ai	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	42724	
PT	/+tag= aj	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	43139	
PT	/+tag= ak	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	47241	
PT	/+tag= al	
PT	/standard_name=	"Single nucleotide polymorphism"
FT	49720	
FT	/+tag= am	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	50036	
PT	/+tag= an	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	50836	
PT	/+tag= ao	
FT	/standard_name=	"Single nucleotide polymorphism"
PT	51853	
PT	/+tag= ap	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	51946	
FT	/+tag= aq	
FT	/standard_name=	"Single nucleotide polymorphism"
FT	57864	
PT	/+tag= ar	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	59414	
PT	/+tag= as	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	60074	
PT	/+tag= at	
PT	/standard_name=	"Single nucleotide polymorphism"
PT	65721	
PT	/+tag= au	

FT /standard_name= "single nucleotide polymorphism"
FT 67995
FT /*tag= av
FT /standard_name= "single nucleotide polymorphism"
XX WO2005017176-A2.
XX
XX
XX PD 24-FEB-2005.
XX
XX PF 05-MAY-2004; 2004WO-US014238.
XX
XX 23-JUL-2003; 2003US-0489703P.
XX PR 06-NOV-2003; 2003US-00703789.
XX PR 06-NOV-2003; 2003US-00703817.
XX PR 06-NOV-2003; 2003US-00704513.
XX
XX (SEQU-) SEQUENOM INC.
XX
XX PI Roth RB, Nelson MR, Kammerer SM, Braun A, Hoyal-Wrightson CR,
XX
XX WPI: 2005-182387/19.
XX P-Psdb; ADX80739.
XX
XX PT Identifying a subject at risk of melanoma by detecting presence or
XX PT absence of a polymorphic variation associated with melanoma, where the
XX PT presence of polymorphic variations is indicative of the subject being at
XX PT risk of melanoma.
XX
XX PS Claim 16; SEQ ID NO 3; 418bp; English.
XX
XX CC The invention relates to a novel method for identifying a subject at risk
XX CC of melanoma. The method comprises detecting the presence or absence of a
XX CC polymorphic variation associated with melanoma, where the presence of the
XX CC one or more polymorphic variations is indicative of the subject being at
XX CC risk of melanoma. The invention further comprises: a method for
XX CC identifying a polymorphic variation associated with melanoma proximal to
XX CC an incident polymorphic variation associated with melanoma; an isolated
XX CC nucleic acid which comprises a portion of or all of a nucleotide sequence
XX CC comprising fully defined 68400-213300 base pairs sequences (SEQ ID NO. 3,
XX CC 4, 5, 6, and/or 7) given in the specification, and comprises one or more
XX CC polymorphic variations; an oligonucleotide comprising a nucleotide
XX CC sequence complementary to a portion of the nucleotide sequence above,
XX CC where the 3' end of the oligonucleotide is adjacent to a polymorphic
XX CC variation; a microarray comprising the isolated nucleic acid linked to a
XX CC solid support; an isolated polypeptide encoded by the isolated nucleic
XX CC acid sequence; genotyping a nucleic acid; a method for identifying a

Query Match 1.6%; Score 51; DB 14; Length 68200;
Best Local Similarity 100.0%; Pred. No. 4.3e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2890 AGGCAAGTGGATCACTGAGGCCAGAGTTCGAGACCAAGCTGGCCAACT 2940
DB 63277 AGGCAAGTGGATCACTGAGGCCAGAGTTCGAGACCAAGCTGGCCAACT 63227

RESULT 30
ACN44754/C
ID ACN44754 standard; DNA; 215221 BP.
XX
XX AC ACN44754;
XX
XX DT 18-NOV-2004 (first entry)
XX
XX DE Human genomic sequence hCG37990.
XX
XX KM Cystostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO2003073826-A2.
XX
XX PD 12-SEP-2003.

XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX PR 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX PI Morris DW;
XX
XX WPI: 2003-328604/31.
XX
XX DR
XX
XX PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX PT comprises a nucleotide sequence.
XX
XX PS Claim 1; SEQ ID NO 1360; Opp; English.
XX
XX CC The present invention relates to novel DNA and protein sequences which
XX CC are associated with carcinomas. The sequences are useful for: (i) for
XX CC screening drug candidates; (ii) for screening of bioactive agent capable
XX CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX CC a bioactive agent capable of modulating the activity of CAP; (iv) for
XX CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
XX CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX CC determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX CC carcinoma including lymphoma. The present sequence is one such CA coding
XX CC sequence. Note: This patent is an equivalent to basic patent
XX CC US2002182586A1, for which no sequence data was published

SEQ Sequence 215221 BP; 63216 A; 39385 C; 42715 G; 69905 T; 0 U; 0 Other;

Query Match 1.6%; Score 51; DB 11; Length 215221;
Best Local Similarity 100.0%; Pred. No. 4.2e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAAGTTGTGCACTGCACTCCAGCTGGGCAACAGACCAAGACTGTCT 3121
DB 50858 CAAAGTTGTGCACTGCACTCCAGCTGGGCAACAGACCAAGACTGTCT 50808

RESULT 31
AAC24464/C
ID AAC24464 standard; cDNA; 255 BP.
XX
XX AC AAC24464;
XX
XX DT 06-OCT-2000 (first entry)
XX
XX DE Human secreted protein 5' EST, SEQ ID NO: 28539.
XX
XX KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
XX KM gene therapy; chromosome mapping; ss.
XX
XX OS Homo sapiens.
XX
XX PN EP1033401-A2.
XX
XX PD 06-SEP-2000.
XX
XX PF 21-FEB-2000; 2000EP-00200610.
XX
XX PR 26-FEB-1999; 99US-0122487P.
XX
XX PA (GSEST) GENSET.
XX
XX PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
XX WPI: 2000-500381/45.
XX
XX DR
XX
XX PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
XX PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for

PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
 XX Claim 1; SEQ ID NO 28539; 71bp + Sequence Listing; English.
 XX
 CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'
 CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used
 CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in
 CC diagnostic, forensic, gene therapy and chromosome mapping procedures.
 CC They are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors
 CC
 XX
 SQ Sequence 255 BP; 47 A; 55 C; 53 G; 100 T; 0 U; 0 Other;
 Query Match 1.6%; Score 50; DB 3; Length 255;
 Best Local Similarity 100.0%; Pred. No. 1.6e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 GY 3073 AGATTGTCACATGCACTCCAGCTGCGGCAAGAGAGACTCTGTCTC 3122
 Db 226 AGATTGTCACATGCACTCCAGCTGCGGCAAGAGAGACTCTGTCTC 177
 RESULT 32
 ADN41748
 ID ADN41748 standard; DNA; 288 BP.
 XX
 AC ADN41748;
 XX
 DT 17-JUN-2004 (first entry)
 XX
 DE Novel human secreted protein polynucleotide seqid 870.
 XX
 KW immunomodulator; immunosuppressive; antiinflammatory; dermatological;
 KW antiallergic; antirheumatic; neuroprotective; antitumour; muscular;
 KW antiallergic; antirheumatic; gastrointestiant; anticoagulant;
 KW thrombolytic; antiarteriosclerotic; cardiac; cytosolic; nephrotoxic;
 KW cardiovascular; respiratory; gene therapy; secreted protein;
 KW chromosome identification; hybrid mapping; gene expression control;
 KW immune system disorder; immunodeficiency; Chediak-Higashi syndrome;
 KW autoimmune disease; systemic lupus erythematosus; rheumatoid arthritis;
 KW multiple sclerosis; haemolytic anaemia; myasthenia gravis;
 KW allergic reaction; asthma; inflammatory condition;
 KW inflammatory bowel disease; B cell stimulator; T cell activator;
 KW blood-related disorder; eosinophilia; thrombosis; thromboembolism;
 KW atherosclerosis; myocardial infarction; angina; anaemia;
 KW hyperproliferative disorder; cancer; renal disorder;
 KW chronic kidney failure; renal tubular acidosis; kidney stone;
 KW cardiovascular disorder; respiratory disorder; human; ds.
 XX
 OS Homo sapiens.
 XX
 PN US2004044191-A1.
 XX
 PD 04-MAR-2004.
 XX
 PF 10-OCT-2001; 2001US-00973278.
 XX
 XX 08-JUL-1997; 97US-0051916P.
 PR 08-JUL-1997; 97US-0051918P.
 PR 08-JUL-1997; 97US-0051919P.
 PR 08-JUL-1997; 97US-0051920P.
 PR 08-JUL-1997; 97US-0051925P.
 PR 08-JUL-1997; 97US-0051926P.
 PR 08-JUL-1997; 97US-0051928P.
 PR 08-JUL-1997; 97US-0051929P.

PR 08-JUL-1997; 97US-0051930P.
 PR 08-JUL-1997; 97US-0051931P.
 PR 08-JUL-1997; 97US-0051932P.
 PR 08-JUL-1997; 97US-0052732P.
 PR 08-JUL-1997; 97US-0052733P.
 PR 08-JUL-1997; 97US-0052793P.
 PR 08-JUL-1997; 97US-0052795P.
 PR 08-JUL-1997; 97US-0052803P.
 PR 18-AUG-1997; 97US-0055684P.
 PR 18-AUG-1997; 97US-0055722P.
 PR 18-AUG-1997; 97US-0055723P.
 PR 18-AUG-1997; 97US-0055947P.
 PR 18-AUG-1997; 97US-0055948P.
 PR 18-AUG-1997; 97US-0055949P.
 PR 18-AUG-1997; 97US-0055950P.
 PR 18-AUG-1997; 97US-0055953P.
 PR 18-AUG-1997; 97US-0055954P.
 PR 18-AUG-1997; 97US-0055964P.
 PR 18-AUG-1997; 97US-0055984P.
 PR 18-AUG-1997; 97US-0056360P.
 PR 12-SEP-1997; 97US-0058660P.
 PR 12-SEP-1997; 97US-0058661P.
 PR 12-SEP-1997; 97US-0058664P.
 PR 12-SEP-1997; 97US-0058785P.
 PR 07-JUL-1998; 98WO-US013684.
 PR 08-JAN-1999; 99US-00227357.
 PR 13-OCT-2000; 2000US-0239899P.
 XX
 PA (FISC/) FISCHER C L.
 PA (ROSE/) ROSEN C A.
 PA (SOPE/) SOPPET D R.
 PA (RUBE/) RUBEN S M.
 PA (KYAW/) KYAW H.
 PA (LIYY/) LI Y.
 PA (ZENG/) ZENG Z.
 PA (LAFL/) LAFLAUR D W.
 PA (MOOR/) MOORE P A.
 PA (SHIY/) SHI Y.
 PA (OLSE/) OLSEN H.
 PA (EBNE/) EBNER R.
 PA (BIRS/) BIRSE C E.
 XX
 PI Fischer CL, Rosen CA, Soppet DR, Ruben SM, Kyaw H, Li Y, Zeng Z,
 PI Laflaur DW, Moore PA, Shi Y, Olsen H, Ebner R, Birse CE;
 XX
 DR WPI; 2004-225733/21.
 XX
 PT New isolated nucleic acid encoding human proteins, useful for treating,
 PT preventing or diagnosing e.g. rheumatoid arthritis, multiple sclerosis,
 PT anaemia, inflammatory bowel disease, atherosclerosis, cancers, chronic
 PT kidney failure.
 XX
 PS Disclosure; SEQ ID NO 870; 372pp; English.
 XX
 CC The invention describes novel human secreted proteins and the nucleotides
 CC encoding them. The polynucleotides are useful in chromosome
 CC identification, for radiation hybrid mapping, in controlling gene
 CC expression, in gene therapy or as molecular weight markers. The
 CC polynucleotides and polypeptides are useful for diagnosing, treating or
 CC preventing diseases of the immune system, immunodeficiencies, e.g.
 CC Chediak-Higashi syndrome, autoimmune diseases, e.g. systemic lupus
 CC erythematosus, rheumatoid arthritis, multiple sclerosis, haemolytic
 CC anaemia or myasthenia gravis, allergic reactions, e.g. asthma,
 CC inflammatory conditions, e.g. inflammatory bowel disease. They can also
 CC be used as a stimulator of B cell responsiveness to pathogens or as an
 CC activator of T cells. The polynucleotides and polypeptides are also
 CC useful for treating or preventing blood-related disorders, e.g.
 CC eosinophilia, thrombosis, thromboembolism, atherosclerosis, myocardial
 CC infarction, unstable angina or anaemia. They can also be used for
 CC treating, preventing or diagnosing hyperproliferative disorders
 CC (cancers), renal disorders (chronic kidney failure, renal tubular
 CC acidosis or kidney stones), cardiovascular disorders or respiratory
 CC disorders. This sequence represents a novel human secreted protein

CC polynucleotide fragment. Note: This sequence is available in electronic
CC format from the US patent office at
CC ftp://segdata.uspto.gov/sequence.html?DocID=20040044191.
XX
SQ Sequence 288 BP; 89 A; 75 C; 80 G; 44 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 12; Length 288;
Best Local Similarity 100.0%; Pred. No. 1.5e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AAGATGTGCGACCTGACCTCGGCGACAGACAGACGACTCTGTCTC 3122
Db 221 AAGATGTGCGACCTGACCTCGGCGACAGACAGACGACTCTGTCTC 270

RESULT 33
AAK84092
ID AAK84092 standard; DNA; 301 BP.
XX
AC AAK84092;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38904.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-019076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-021680P.
PR 07-JUL-2000; 2000US-021680P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0217496P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227099P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.

PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239936P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.

PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249219P.
 PR 17-NOV-2000; 2000US-0249220P.
 PR 17-NOV-2000; 2000US-0249221P.
 PR 17-NOV-2000; 2000US-0249222P.
 PR 17-NOV-2000; 2000US-0249223P.
 PR 17-NOV-2000; 2000US-0249224P.
 PR 17-NOV-2000; 2000US-0249225P.
 PR 17-NOV-2000; 2000US-0249226P.
 PR 17-NOV-2000; 2000US-0249227P.
 PR 17-NOV-2000; 2000US-0249228P.
 PR 17-NOV-2000; 2000US-0249229P.
 PR 17-NOV-2000; 2000US-0249230P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251988P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-483426/52.
 XX
 PT Nucleic acid encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and metastasis.
 XX
 PS Disclosure; SEQ ID NO 38904; 3071bp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 301 BP; 87 A; 74 C; 92 G; 48 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 4; Length 301;
 Best Local Similarity 100.0%; Pred. No. 1.5e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGCGCACTGCACTCCAGCGCTGGGCAACAGAGACTGCTGTC 3122
 |||
 DB 234 AGATTGCGCACTGCACTCCAGCGCTGGGCAACAGAGACTGCTGTC 283

RESULT 34
 AAS93725
 ID AAS93725 standard; CDNA; 432 BP.
 XX
 AC AAS93725;
 XX

DT 13-FEB-2002 (first entry)
 XX
 DE DNA encoding novel human diagnostic protein #29529.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
 OS Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US008631.
 XX
 PR 31-MAR-2000; 2000US-00540217.
 PR 23-AUG-2000; 2000US-00649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Dmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR P-PSDB; ABG29538.
 XX
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity.
 XX
 PS Claim 1; SEQ ID NO 29529; 103bp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
 CC sequences. (I) is useful as hybridisation probes, polymerase chain
 CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
 CC and in recombinant production of (II). The polynucleotides are also used
 CC in diagnostics as expressed sequence tags for identifying expressed
 CC genes. (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activity. The
 CC polynucleotide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
 CC coding sequences of the invention. Note: The sequence data for this
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 432 BP; 57 A; 142 C; 168 G; 65 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 5; Length 432;
 Best Local Similarity 100.0%; Pred. No. 1.5e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 888 GACGGGCTCAACAAGAGCACTGCTGTACCAACCACTGTGTGACCGT 937
 |||
 DB 22 GACGGGCTCAACAAGAGCACTGCTGTACCAACCACTGTGTGACCGT 71

RESULT 35
 AD081170
 ID AD081170 standard; DNA; 1001 BP.
 XX
 AC AD081170;
 XX
 DT 04-NOV-2004 (first entry)
 XX

DB Human phenotype associated polymnucleotide baysNP59113 SEQ ID NO:258.
 XX ds; gene; phenotype associated; PA; cardiact; statin; cardiovascular;
 KW atherosclerosis; ischaemia; reperfusion; hypertension; restenosis;
 KW arterial inflammation; myocardial infarction; stroke;
 KW single nucleotide polymorphism; SNP.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT variation 501
 FT /*tag= a
 FT /standard_name= "Single nucleotide polymorphism"
 XX
 PN MO2004067774-A2.
 XX
 PD 12-AUG-2004.
 XX
 PF 23-JAN-2004; 2004WO-BE000539.
 XX
 PR 31-JAN-2003; 2003EP-00002212.
 PR 03-FEB-2003; 2003EP-00002153.
 XX
 PA (FARB) BAYER HEALTHCARE AG.
 XX
 PI Stropp U, Schwere S, Kallabis H;
 XX
 DR WPI; 2004-581012/56.
 XX
 PT New polymorphisms of a phenotype associated (PA) gene, useful for
 PT assessing the response to lipid lowering drug therapy and adverse drug
 PT reactions of the medicaments, and for screening compounds for treating
 PT cardiovascular diseases.
 XX
 PS Claim 1; SEQ ID NO 258; 349pp; English.
 XX
 CC The invention relates to a novel polymnucleotide encoded by a phenotype
 CC associated (PA) gene. The polymnucleotide is selected from 292 sequences
 CC comprising 301-1002 base pairs (AD080913-AD081204) given in the
 CC specification, with allelic variation contained in a functional
 CC surrounding like full length cDNA for PA gene polypeptide and with or
 CC without the PA gene promoter sequence. A polymnucleotide of the invention
 CC has radiant activity, and acts as a phenotype-associated gene modulator.
 CC The reagent of the invention is useful for preparing a medicament tailored to
 CC method of the invention is useful for preparing a medicament tailored to
 CC suit a patient's individual response to statin therapy. The genetic
 CC polymorphisms are useful for assessing the response to lipid lowering
 CC drug therapy and adverse drug reactions of the medicaments, particularly
 CC for assessing cardiovascular risks in humans e.g. atherosclerosis,
 CC ischaemia/reperfusion, hypertension, restenosis, arterial inflammation,
 CC myocardial infarction, and stroke. The genetic polymorphisms are also
 CC useful for identifying compounds for treatments of cardiovascular disease
 CC above or as prophylactic therapy for cardiovascular diseases. The genetic
 CC variations are useful for predicting personal medication schemes omitting
 CC adverse drug reactions and allowing an adjustment of the drug dose to
 CC achieve maximum benefit for the patient. The nucleic acids are useful as
 CC probes for the detection of genetic polymorphisms and as templates for
 CC the recombinant production of normal variant peptides or polypeptides
 CC encoded by the genes. The present sequence represents a polymnucleotide of
 CC the invention.
 XX
 SQ Sequence 1001 BP; 363 A; 150 C; 269 G; 218 T; 0 U; 1 Other;
 XX
 Query Match 1.6%; Score 50; DB 13; Length 1001;
 Best Local Similarity 100.0%; Pred. No. 1.5e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3073 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122
 DB 731 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 780

AB58182
 ID AB58182 standard; cDNA; 2407 BP.
 XX
 AC AB58182;
 XX
 DT 26-FEB-2003 (first entry)
 XX
 DE cDNA encoding human zinc finger protein 10.01.
 XX
 KW Human, zinc finger protein 10.01; malignant tumour; haemopathy;
 KW human immunodeficiency virus infection; HIV infection; inflammation;
 KW immunological disease; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1279..1554
 FT /*tag= a
 FT /product= "Zinc finger protein 10.01"
 XX
 PN CN1352110-A.
 XX
 PD 05-JUN-2002.
 XX
 PF 06-NOV-2000; 2000CN-00127241.
 XX
 PR 06-NOV-2000; 2000CN-00127241.
 XX
 PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
 XX
 PI Mao Y, Xie Y;
 XX
 DR WPI; 2002-692406/75.
 DR P-PSDB; ABG72222.
 XX
 PT New human zinc finger protein 10.01 polypeptide for treating malignant
 PT tumors, hemopathy, human immunodeficiency virus infection, immunological
 PT diseases and various inflammations.
 XX
 PS Claim 6; Page 25-26 (disclosure); 39pp; Chinese.
 XX
 CC The present invention relates to the isolation of human zinc finger
 CC protein 10.01, and the polymnucleotide sequence encoding it. Also
 CC described is the process for preparing the protein by DNA recombination
 CC and the application of the polypeptide and polymnucleotide in treating
 CC various diseases such as malignant tumours, haemopathy, human
 CC immunodeficiency virus (HIV) infection, immunological diseases, and
 CC various inflammations. The present sequence encodes human zinc finger
 CC protein 10.01
 XX
 SQ Sequence 2407 BP; 746 A; 458 C; 570 G; 633 T; 0 U; 0 Other;
 XX
 Query Match 1.6%; Score 50; DB 6; Length 2407;
 Best Local Similarity 100.0%; Pred. No. 1.4e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3073 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122
 DB 225 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 274

RESULT 37
 AB82624
 ID AB82624 standard; DNA; 8705 BP.
 XX
 AC AB82624;
 XX
 DT 25-JAN-2002 (first entry)
 XX
 DE Human HBM gene region b200621-h_contigl.
 KW Human; high bone mass; HBM gene; Zmax1 gene; chromosome 11; 11q13.3;
 KW sequence tagged site; STS; osteoporosis; osteopathic; gene therapy;
 KW

KM antisense therapy; vaccine; bone disorder; Paget's disease; sclerostosis;
 KM osteomalacia; fibrous dysplasia; ds.
 XX Homo sapiens.
 OS
 XX WO200177327-A1.
 PN
 XX 18-OCT-2001.
 PD
 XX 21-JUN-2000; 2000WO-US016951.
 PF
 XX 05-APR-2000; 2000US-00543771.
 PR
 XX 05-APR-2000; 2000US-00544398.
 PS
 XX (GENO-) GENOME THERAPEUTICS CORP.
 PA
 XX Carulli JP, Little RD, Recker RR, Johnson ML;
 PI
 XX WPI; 2001-657171/75.
 DR
 XX New high bone mass (HBM) and Zmax1 genes and proteins useful for
 PT modulating bone mass for the treatment of e.g. osteoporosis.
 PS
 XX Claim 51; Page 303-308; 443pp; English.
 PS
 XX The present invention describes the human Zmax1 gene and the high bone
 CC mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM
 CC genes have osteopathic activities. The genes can be used in gene therapy,
 CC antisense therapy and in the production of vaccines. They can be used in
 CC the diagnosis and treatment of bone disorders including osteoporosis,
 CC Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.
 CC AB82038 to AB82700 and AAG68168 to AAG68193 represent sequences used in
 CC the exemplification of the present invention
 CC
 XX Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
 SQ
 Query Match 1.6%; Score 50; DB 5; Length 8705;
 Best Local Similarity 100.0%; Pred. No. 1.4e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3073 AGATTGGCCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTCTCTC 3122
 Db 6492 AGATTGGCCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTCTCTC 6541

RESULT 38
 ACC45365
 ID ACC45365 standard; DNA; 8705 BP.
 XX
 AC ACC45365;
 XX
 DT 02-JUN-2003 (first entry)
 XX
 DE Human HBM gene fragment #6.
 XX
 KM Human; high bone mass; HBM; LRP5; LRP6; transgenic; bone mass modulation;
 KM gene therapy; bone density modulation; bone strength; trabecular number;
 KM bone size; bone tissue connectivity; bone disease; osteoporosis;
 KM osteomalacia; rickets; Paget's disease; neoplasm of the bone; gene; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200292764-A2.
 XX
 PD 21-NOV-2002.
 XX
 PF 13-MAY-2002; 2002WO-US014876.
 PP
 XX 11-MAY-2001; 2001US-0290071P.
 PR 17-MAY-2001; 2001US-0291311P.
 PR 01-FEB-2002; 2002US-0353058P.
 PR 04-MAR-2002; 2002US-0361293P.
 XX
 XX (GENO-) GENOME THERAPEUTICS CORP.

PA (GENO-) GENOME THERAPEUTICS CORP.
 PA (AMHP) WYETH.
 XX
 PI Babi] P, Bex FJ, Yaworeky FJ, Bodine PV;
 XX
 DR WPI; 2003-129278/12.
 XX
 XX New transgenic animals (e.g. mice), useful as models for studying bone
 PT density modulation, developing drugs for treating or preventing bone
 PT diseases (e.g. osteoporosis), or diagnosing diseases characterized by
 PT reduced bone density.
 XX
 PS Example 2; Page 358-361; 603pp; English.
 XX
 XX The invention relates to novel transgenic animals expressing the high
 CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene,
 CC comprising an alteration of the gene encoding LRP5 or LRP6, or expressing
 CC an LRP5 that is modulated by an altered gene control sequence introduced
 CC by homologous or non-homologous recombination. The transgenic animals are
 CC for the study of bone density modulation or bone mass modulation. The
 CC invention has osteopathic and cytostatic activity. The polynucleotides of
 CC the invention may have a use in gene therapy. The transgenic animals and
 CC nucleic acids are for the study of bone density modulation, where the
 CC bone mass is modulated relative to non-transgenic animals of the same
 CC species in more than one parameter selected from bone density, bone
 CC strength, trabecular number, bone size, or bone tissue connectivity. The
 CC transgenic animals, nucleic acids and methods are useful for identifying
 CC molecules involved in bone development, and for developing pharmaceutical
 CC compositions, which may be employed for treating or preventing bone
 CC diseases, e.g. osteoporosis, osteomalacia, rickets, Paget's disease, or
 CC neoplasms of the bone. The transgenic animals and nucleic acids are also
 CC useful in methods for diagnosing diseases involved in bone development,
 CC or characterised by reduced bone density or mass. The present sequence is
 CC used in the exemplification of the invention
 CC
 XX Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
 SQ
 Query Match 1.6%; Score 50; DB 8; Length 8705;
 Best Local Similarity 100.0%; Pred. No. 1.4e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3073 AGATTGGCCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTCTCTC 3122
 Db 6492 AGATTGGCCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTCTCTC 6541

RESULT 39
 ADB98065
 ID ADB98065 standard; DNA; 8705 BP.
 XX
 AC ADB98065;
 XX
 DT 04-DEC-2003 (first entry)
 XX
 DE HBM-related clone contig b200e21-h contig1.
 XX
 KM Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6;
 KM bone mass modulation; osteoporosis; human; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200292000-A2.
 XX
 PD 21-NOV-2002.
 XX
 PF 13-MAY-2002; 2002WO-US014877.
 PP
 XX 11-MAY-2001; 2001US-0290071P.
 PR 17-MAY-2001; 2001US-0291311P.
 PR 01-FEB-2002; 2002US-0353058P.
 PR 04-MAR-2002; 2002US-0361293P.
 XX
 XX (GENO-) GENOME THERAPEUTICS CORP.

PA (AMHP) WYETH.
XX
XX PI Allen K, Anisowicz A, Graham JR, Morales A, Yaworsky PJ, Liu W;
XX WPI; 2003-129214/12.
DR
XX New nucleic acid comprising a mutation in LRP5 or LRP6, useful for
PT diagnosing a HBM-like phenotype in a subject and for preparing a
PT composition for modulating bone mass and/or lipid levels in a subject
PT suffering from e.g. osteoporosis.
XX
XX PS Example 3; SEQ ID NO 10; 6299p; English.
XX
XX The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and
CC LRP6 mutants, which results in a HBM-like phenotype when expressed in a
CC cell. The HBM-like phenotype results in bone mass modulation and/or lipid
CC level modulation. The invention is useful for diagnosing a HBM-like
CC phenotype in a subject and for preparing a composition for modulating
CC bone mass and/or lipid levels in a subject suffering from e.g.
CC osteoporosis. The present sequence was used to illustrate the invention.
XX
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 10; Length 8705;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTGGCACTGCATCTCCAGCCTTGGGCAACAGCAAGCACTGTCTC 3122
DB 6492 AGATTGTGGCACTGCATCTCCAGCCTTGGGCAACAGCAAGCACTGTCTC 6541
RESULT 40
ADE82434
ID ADE82434 standard; DNA; 8705 BP.
XX
AC ADE82434;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human DNA sequence related to the invention #6.
XX
XX LRP5; LRP6; HBM; Dkk activity; Osteopathic; Antiinflammatory;
KW Antiarthritic; bone mass disorders; Osteoporosis; hypercalcaemia;
KW hyperostosis; osteogenesis; Wnt signaling; ds.
XX
OS Homo sapiens.
XX
PN WO200292015-A2.
XX
PD 21-NOV-2002.
XX
PF 17-MAY-2002; 2002WO-US015982.
XX
PR 17-MAY-2001; 2001US-0291311P.
PR 01-FEB-2002; 2002US-0353058P.
PR 04-MAR-2002; 2002US-0361293P.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA (AMHP) WYETH.
XX
XX PI Allen K, Anisowicz A, Bhat BM, Damagnez V, Robinson JA;
PI Yaworsky PJ;
XX
DR WPI; 2003-129219/12.
XX
PT Regulating LRP5, LRP6 or HBM activity in a subject, useful for modulating
PT lipid levels and/or bone mass, and for treating bone mass disorders,
PT e.g. osteoporosis, comprises administering a composition which modulates
PT a Dkk activity.
XX
PS Disclosure; SEQ ID NO 10; 173pp; English.
XX

CC The present invention relates to regulating LRP5, LRP6 or HBM activity in
CC a subject comprising administering a composition which modulates a Dkk
CC activity. The method is useful for modulating lipid levels and/or bone
CC mass, and is useful in treating or diagnosing abnormal lipid levels and
CC bone mass disorders, such as osteoporosis, bone fracture, age-related
CC loss of bone, a chondrodysplasia, drug-induced bone disorder, high bone
CC turnover, hypercalcaemia, hyperostosis, osteogenesis, imperfecta,
CC osteomalacia, osteomyelitis, Paget's disease, osteoarthritis, and
CC rickets. Modulators of Dkk activity are useful for as reagents in
CC studying bone mass and lipid level modulation, in modulating Wnt
CC signaling, or treating Dkk-mediated disorders. The present sequence
CC represents a human DNA sequence related to the invention.
XX
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 10; Length 8705;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTGGCACTGCATCTCCAGCCTTGGGCAACAGCAAGCACTGTCTC 3122
DB 6492 AGATTGTGGCACTGCATCTCCAGCCTTGGGCAACAGCAAGCACTGTCTC 6541
RESULT 41
ADR16928
ID ADR16928 standard; DNA; 8705 BP.
XX
AC ADR16928;
XX
DT 04-NOV-2004 (first entry)
XX
DE BAC clone containing segments of the human Zmax1 gene #6.
XX
XX Human; high bone mass; Zmax1; ds; BAC; HBM; osteoporosis;
KW chromosome 11q13.3; osteopathic; LDL receptor; bone development;
KW metabolic bone disease; bacterial artificial chromosome.
XX
OS Homo sapiens.
XX
PN US6780609-B1.
XX
PD 24-AUG-2004.
XX
PF 05-APR-2000; 2000US-00543771.
XX
PR 13-JAN-1998; 98US-0071449P.
PR 23-OCT-1998; 98US-0105511P.
PR 13-JAN-1999; 99US-00229319.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA
XX
XX PI Carulli JP, Little RD, Recker RR, Johnson ML;
PI WPI; 2004-623529/60.
XX
DR
XX
PT New high bone mass gene of chromosome 1.10q13.3, encoding protein useful
PT for treating, diagnosing, preventing, or screening for normal and
PT abnormal conditions of bone, including metabolic bone diseases, e.g.
PT osteoporosis.
XX
XX PS Example 2; SEQ ID NO 10; 284pp; English.
XX
XX The invention relates to an isolated amino acid protein sequence selected
CC from an amino acid sequence appearing as ADR16922 or an amino acid
CC sequence comprising or consisting of the extracellular domain of
CC ADR16922(amino acids 23-1385). ADR16922 is encoded by the HBM (high bone
CC mass) allele of the human Zmax1 gene and has sequence similarity to LDL
CC receptors. Also disclosed are nucleic acids, proteins, cloning vectors,
CC expression vectors, transformed hosts, methods of developing
CC pharmaceutical compositions, methods of identifying molecules involved in
CC bone development, and methods of diagnosing and treating diseases
CC involved in bone development. Specifically disclosed is the Zmax1 gene

CC and the high bone mass (HBM) allele on chromosome 11q13.3 encoding
CC ADR16922. The protein is useful for treating, diagnosing, preventing, or
CC screening for normal and abnormal conditions of bone, including metabolic
CC bone diseases, e.g. osteoporosis. The present sequence is a BAC
CC (bacterial artificial chromosome) containing part of the Zmax1 gene.
XX
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 13; Length 8705;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGCGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTCTGTCTC 3122
Db 6492 AGATTGCGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTCTGTCTC 6541
RESULT 42
ID ADR47579 standard; DNA; 8705 BP.
XX
AC ADR47579;
DT 02-DEC-2004 (first entry)
XX
DE BAC clone containing segments of the human Zmax1 gene #6.
XX
KM Human; ds; bacterial artificial chromosome; high bone mass; Zmax1; HBM;
KM bone modulation; bone development disorder; osteoporosis;
KM chromosome 11q13.3; gene therapy; BAC.
XX
OS Homo sapiens.
XX
PN US2004176582-A1.
XX
PD 09-SEP-2004.
XX
PF 10-DEC-2003; 2003US-00731739.
XX
PR 13-JAN-1998; 98US-0071449P.
PR 23-OCT-1998; 98US-0105511P.
PR 13-JAN-1999; 99US-00229319.
PR 05-APR-2000; 2000US-00544398.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA (UYCR-) UNIV CREIGHTON.
XX
XX Carulli JP, Little RD, Recker RR, Johnson ML;
PI
DR MPI; 2004-661408/64.
XX
XX
PT New nucleic acid sequence encoding high bone mass, useful in diagnosing,
PT treating and/or preventing osteoporosis.
XX
PS Claim 51; SEQ ID NO 10; 303pp; English.
XX
XX The invention relates to an isolated nucleic acid sequence encoding a
CC high bone mass protein (HBM). The gene exists in two alleles, Zmax1, the
CC notional wild-type (the cDNA for which appears as ADR47570 encoding
CC ADR47572) and the HBM allele (the cDNA for which appears as ADR47571
CC encoding ADR47573). The two alleles differ by a single nucleotide
CC polymorphism (G to T at position 582 of ADR47570) causing a Gly to Val
CC change at position 171 of the protein. Also included are a replicative
CC cloning vector comprising HBM/Zmax1 (and a replicon operative in an
CC isolated host cell), an expression vector comprising HBM/Zmax1 operably
CC linked to a transcription regulatory region, an isolated host cell
CC transformed with the vector(s), a method for testing a substance as a
CC therapeutic agent for bone modulation in a host, a method of identifying
CC a molecule involved in bone modulation, a method for identifying a
CC (candidate) protein involved in bone modulation, a method of testing for
CC HBM activity, a method of developing a pharmaceutical for the treatment
CC of bone development disorders, a method for treating a bone development
CC disorder in an animal, a method of altering bone development in a host, a

CC method for diagnostic screening for a genetic predisposition to a bone
CC development disorder, a diagnostic assay for bone development disorders,
CC a method of expressing the HBM protein in bone tissue, a bacterial
CC artificial chromosome comprising HBM/Zmax1 sequence (appearing as
CC ADR47574-ADR47580), a method for amplifying a nucleotide polymorphism in
CC the Zmax1 or HBM gene, a method for identifying a regulatory element of a
CC HBM gene and an isolated nucleic acid segment of at least 15 contiguous
CC nucleotides including a polymorphic site from HBM/Zmax1. The nucleic acid
CC molecule and the encoded polypeptide, composition, and methods are useful
CC in diagnosing, treating and preventing a bone development disorder, i.e.
CC osteoporosis. The gene for HBM/Zmax1 is located on chromosome 11q13.3.
CC The present sequence is an HBM DNA from a bacterial artificial
CC chromosome.
XX
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 13; Length 8705;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGCGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTCTGTCTC 3122
Db 6492 AGATTGCGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTCTGTCTC 6541
RESULT 43
ID AEB69308 standard; DNA; 8705 BP.
XX
AC AEB69308;
DT 22-SEP-2005 (first entry)
XX
DE Human High Bone Mass gene related contig b200e21_h_contig1, SEQ ID 10.
XX
KM Osteopathic; high bone mass; Zmax1; bone disease; osteoporosis;
KM osteomalacia; bone injury; Pagets disease; ds.
XX
OS Homo sapiens.
XX
PN US2005142617-A1.
XX
PD 30-JUN-2005.
XX
PF 29-APR-2004; 2004US-00834377.
XX
PR 13-JAN-1998; 98US-0071449P.
PR 23-OCT-1998; 98US-0105511P.
PR 13-JAN-1999; 99US-00229319.
PR 05-APR-2000; 2000US-00543771.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.
XX
XX Carulli JP, Little RD, Recker RR, Johnson ML;
PI
DR MPI; 2005-496364/50.
XX
XX Identifying candidate molecule involved in bone modulation, comprises
PT identifying molecule that binds to Zmax1, high bone mass (HBM) protein,
PT or both Zmax1 and HBM protein.
XX
PS Example 2; SEQ ID NO 10; 308pp; English.
XX
XX The present invention relates to a method (M1) for identifying a
CC candidate molecule involved in bone modulation. The method comprises
CC identifying a molecule that binds to High Bone Mass protein (HBM) and/or
CC Zmax1 protein. The HBM gene exists in two alleles: Zmax1, the notional
CC wild-type (the cDNA for which appears as AEB69299 encoding AEB69301 and
CC AEB69939 encoding AEB69940) and the HBM allele (the cDNA for which
CC appears as AEB69300 encoding AEB69302). The two alleles differ by a
CC single nucleotide polymorphism (T to G at position 582 of AEB69299)
CC causing a Gly to Val change at position 171 of the protein. The HBM

CC protein has the property of causing elevated bone mass, while the Zmax1
CC protein does not. The gene for HBW/Zmax1 is located on chromosome
CC 11q13.3. Also claimed is a method of pharmaceutical development for
CC treating of bone development disorders, such as osteoporosis,
CC osteomalacia, bone fractures, Paget's disease, etc., which comprises
CC identifying a molecule that binds to the Zmax1 protein, or to HBW, or
CC both. The present sequence was used to illustrate the invention.

XX
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 14; Length 8705;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3073 AGATTGTCACCTGCAGCTGGGACAGACGAGACTGTCTC 3122
Db 6492 AGATTGTCACCTGCAGCTGGGACAGACGAGACTGTCTC 6541

RESULT 44

ID AAK86119 standard; DNA; 10396 BP.

AC AAK86119;

DT 07-NOV-2001 (first entry)

DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:40931.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KM cytostatic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

FN WO200157182-A2.

PD 09-AUG-2001.

PE 17-JAN-2001; 2001WO-US001354.

XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-020515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226799P.
PR 22-AUG-2000; 2000US-0226811P.
PR 22-AUG-2000; 2000US-0226868P.

PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 12-OCT-2000; 2000US-0237044P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.

PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251866P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251889P.
PR 08-DEC-2000; 2000US-0251909P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259676P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX WPT; 2001-483426/52.
XX
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Disclosure; SEQ ID NO 40931; 3071bp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
XX Sequence 10396 BP; 3175 A; 2158 C; 2127 G; 2936 T; 0 U; 0 Other;
SQ

Query Match 1.6%; Score 50; DB 4; Length 10396;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTCACACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 3122
DB 5597 AGATTGTCACACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 5646

RESULT 45
ABA20857

ID ABA20857 standard; DNA; 11234 BP.
XX
XX ABA20857;
AC
XX
DT 23-JAN-2002 (first entry)
XX
DE Human nervous system related polynucleotide SEQ ID NO 13188.
XX
XX Human; nootropic; neuroprotective; cytosolic; dermatological; virocidic;
XX immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
XX antiparkinsonian; antisclerotic; antianemic; antidiabetic; cancer;
XX antineumatic; hepatotropic; cerebroprotective; antiinflammatory;
XX antiallergic; antidiabetic; antidiabetic; antidiabetic; antifungal;
XX antipruritic; cardiac; immune disorder; cardiovascular disorder;
XX neurological disease; infection; nephrotropic; gene therapy; vaccine; da.
OS
XX Homo sapiens.
XX
XX W0200159063-A2.
XX
PD 16-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001334.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0186874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198133P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 26-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 14-JUL-2000; 2000US-0218290P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225265P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
XX 22-AUG-2000; 2000US-0226868P.
XX 22-AUG-2000; 2000US-0227182P.
XX 23-AUG-2000; 2000US-0227009P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 05-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 06-SEP-2000; 2000US-0230438P.
XX 08-SEP-2000; 2000US-0231242P.
XX 08-SEP-2000; 2000US-0231243P.
XX 08-SEP-2000; 2000US-0231244P.
XX 08-SEP-2000; 2000US-0231413P.
XX 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0233080P.
 PR 08-SEP-2000; 2000US-0233081P.
 PR 12-SEP-2000; 2000US-0233086P.
 PR 14-SEP-2000; 2000US-0233397P.
 PR 14-SEP-2000; 2000US-0233398P.
 PR 14-SEP-2000; 2000US-0233399P.
 PR 14-SEP-2000; 2000US-0233400P.
 PR 14-SEP-2000; 2000US-0233401P.
 PR 14-SEP-2000; 2000US-0233063P.
 PR 14-SEP-2000; 2000US-0233064P.
 PR 14-SEP-2000; 2000US-0233065P.
 PR 21-SEP-2000; 2000US-0234223P.
 PR 21-SEP-2000; 2000US-0234274P.
 PR 25-SEP-2000; 2000US-0234997P.
 PR 25-SEP-2000; 2000US-0234998P.
 PR 26-SEP-2000; 2000US-0235484P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239335P.
 PR 13-OCT-2000; 2000US-0239337P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241862P.
 PR 20-OCT-2000; 2000US-0242221P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.
 PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246528P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246609P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.
 PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249264P.
 PR 17-NOV-2000; 2000US-0249265P.
 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.

PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 01-DEC-2000; 2000US-0251560P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 11-DEC-2000; 2000US-0251990P.
 PR 05-JAN-2001; 2001US-0256780P.
 PR (HUMA-) HUMAN GENOME SCT INC.
 PR PA
 PR XX
 PR PI Rosen CA, Barash SC, Ruben SM;
 PR WPI, 2001-541565/60.
 PR XX
 PR DR Nucleic acids encoding 3224 human nervous system antigen polypeptides,
 PR PT useful for preventing, diagnosing and/or treating nervous system cancers
 PR PT and metastases.
 PR XX
 PR PS Disclosure; SEQ ID NO 13188; 1701bp + Sequence Listing; English.
 PR XX
 PR CC The invention relates to novel genes (ABAI1004-ABAI21534) and proteins
 PR CC (ABAI14678-ABAI18001) useful for preventing, treating or ameliorating
 PR CC medical conditions e.g. by protein or gene therapy. The genes are
 PR CC isolated from a range of human tissues disclosed in the specification.
 PR CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
 PR CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
 PR CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
 PR CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
 PR CC disorders e.g. Addison's disease, diabetes mellitus, autoimmune haemolytic
 PR CC anemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
 PR CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
 PR CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
 PR CC ; (e) neurological diseases such as cerebral anoxia and epilepsy; and (f)
 PR CC infectious diseases such as viral, bacterial, fungal and parasitic
 PR CC infections. Note: The sequence data for this patent did not form part of
 PR CC the printed specification, but was obtained in electronic format directly
 PR CC from WIPO at ftp.wipo.int/pub/published_pcf_sequences
 PR CC XX
 PR SQ Sequence 11234 BP; 3094 A; 2417 C; 2869 G; 2854 T; 0 U; 0 Other;
 PR XX
 PR Query Match 1.6%; Score 50; DB 5; Length 11234;
 PR Best Local Similarity 100.0%; Pred. No. 1.4e-12;
 PR Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PR
 PR QY 3073 AGATTGTCACCTGACCTCCAGCTGGGCAAGAGCAAGACTGTCTC 3122
 PR |||||
 PR DB 11155 AGATTGTCACCTGACCTCCAGCTGGGCAAGAGCAAGACTGTCTC 11204
 PR
 PR RESULT 46
 PR ID AAK80184 standard; DNA; 13026 BP.
 PR AAK80184;
 PR AC
 PR XX 07-NOV-2001 (first entry)
 PR DT
 PR XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:34996.
 PR DE Human immune/haematopoietic; immune/haematopoietic antigen; cancer;
 PR XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
 PR KW cystostatic; gene therapy; vaccine; metastasis; ds.
 PR XX
 PR OS Homo sapiens.
 PR XX
 PR PN WO200157182-A2.
 PR XX

PD 09-AUG-2001.
XX 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0160628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-019076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220964P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226661P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.

PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
DR

XX Nucleic acids encoding human immune/haematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Discloure; SEQ ID NO 34996; 3071bp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM62170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK67634 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM62169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 13026 BP; 4098 A; 2489 C; 2384 G; 4055 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 4; Length 13026;
Best Local Similarity 100.0%; Pred. No. 1.4e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3073 AGATTGTGCACACTGCTCAGCTGGGCAACAGACAGACTCTGTCTC 3122
Db 8926 AGATTGTGCACACTGCTCAGCTGGGCAACAGACAGACTCTGTCTC 8877

RESULT 47
AAK80185/C
ID AAK80185 standard; DNA; 13026 BP.
AC AAK80185;
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:34997.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
FN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PE 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0186874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225477P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226641P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0232081P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239045P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241816P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.

PR	17-NOV-2000;	2000US-0249214P.
PR	17-NOV-2000;	2000US-0249215P.
PR	17-NOV-2000;	2000US-0249216P.
PR	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249244P.
PR	17-NOV-2000;	2000US-0249245P.
PR	17-NOV-2000;	2000US-0249264P.
PR	17-NOV-2000;	2000US-0249265P.
PR	17-NOV-2000;	2000US-0249297P.
PR	17-NOV-2000;	2000US-0249299P.
PR	01-DEC-2000;	2000US-0249300P.
PR	01-DEC-2000;	2000US-0250160P.
PR	01-DEC-2000;	2000US-0250391P.
PR	05-DEC-2000;	2000US-0251030P.
PR	05-DEC-2000;	2000US-0251988P.
PR	05-DEC-2000;	2000US-0256719P.
PR	06-DEC-2000;	2000US-0251479P.
PR	08-DEC-2000;	2000US-0251856P.
PR	08-DEC-2000;	2000US-0251868P.
PR	08-DEC-2000;	2000US-0251869P.
PR	08-DEC-2000;	2000US-0251989P.
PR	08-DEC-2000;	2000US-0251990P.
PR	11-DEC-2000;	2000US-0254097P.
PR	05-JAN-2001;	2001US-0259678P.
XX		
PA	(HUMA-)	HUMAN GENOME SCI INC.
XX		
PI	Rosen CA, Barash SC, Ruben SM;	
XX		
DR	WPI; 2001-465570/50.	
XX		
PT	Isolated nucleic acid molecule encoding a reproductive system antigen is	
PR	used in preventing, treating or ameliorating a medical condition.	
XX		
PS	Disclosure; SEQ ID NO 8149; 1297bp + Sequence Listing; English.	
XX		
CC	The present invention provides the protein and coding sequences of a	
CC	number of human reproductive system related antigens. These can be used	
CC	in the prevention and treatment of reproductive system disorders,	
CC	including cancer. The present sequence is a genomic sequence encoding a	
CC	protein of the invention	
XX		
SO	Sequence 31474 BP; 9245 A; 6055 C; 6292 G; 9882 T; 0 U; 0 Other;	
	Query Match	1.6%; Score 50; DB 4; Length 31474;
	Best Local Similarity	100.0%; Pred. No. 1.3e-12;
	Matches	50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY	3073 AGATTGGCCACTGCACTCCAGCCTGGGCAACGAGCAAGACACTGCTC	3122
	72 AGATTGGCCACTGCACTCCAGCCTGGGCAACGAGCAAGACACTGCTC	23
DB		
	ABLR98314/C	
	ID	ABLR98314 standard; DNA; 31474 BP.
XX		
AC	ABLR98314;	
XX		
DT	21-JUN-2002 (first entry)	
XX		
DE	Human testicular antigen encoding DNA fragment SEQ ID NO: 2966.	
XX		
KW	Human; testicular antigen; testes; cancer; metastasis; immune disorder;	
KW	reproductive system disorder; urinary system disorder; gene therapy;	
KW	cardiovascular disorder; respiratory disorder; neurological disorder;	
KW	gastrointestinal disease; infection; cytostatic; gene; ds.	
XX		
OS	Homo sapiens.	
XX		
PN	WO20015317-A2.	
XX		

PD 02-AUG-2001.
XX 17-JAN-2001/ 2001WO-US001329.
XX
PR 31-JAN-2000/ 2000US-0179065P.
PR 04-FEB-2000/ 2000US-0180628P.
PR 24-FEB-2000/ 2000US-0184664P.
PR 02-MAR-2000/ 2000US-0186350P.
PR 16-MAR-2000/ 2000US-0189874P.
PR 17-MAR-2000/ 2000US-0190076P.
PR 18-APR-2000/ 2000US-0198123P.
PR 19-MAY-2000/ 2000US-0205515P.
PR 07-JUN-2000/ 2000US-0209467P.
PR 28-JUN-2000/ 2000US-0214886P.
PR 30-JUN-2000/ 2000US-0215135P.
PR 07-JUL-2000/ 2000US-0216647P.
PR 07-JUL-2000/ 2000US-0216880P.
PR 11-JUL-2000/ 2000US-0217487P.
PR 11-JUL-2000/ 2000US-0217496P.
PR 14-JUL-2000/ 2000US-0218290P.
PR 26-JUL-2000/ 2000US-0220963P.
PR 26-JUL-2000/ 2000US-0220964P.
PR 14-AUG-2000/ 2000US-0224518P.
PR 14-AUG-2000/ 2000US-0224519P.
PR 14-AUG-2000/ 2000US-0225213P.
PR 14-AUG-2000/ 2000US-0225214P.
PR 14-AUG-2000/ 2000US-0225266P.
PR 14-AUG-2000/ 2000US-0225267P.
PR 14-AUG-2000/ 2000US-0225268P.
PR 14-AUG-2000/ 2000US-0225270P.
PR 14-AUG-2000/ 2000US-0225447P.
PR 14-AUG-2000/ 2000US-0225757P.
PR 14-AUG-2000/ 2000US-0225758P.
PR 14-AUG-2000/ 2000US-0225759P.
PR 18-AUG-2000/ 2000US-0226279P.
PR 22-AUG-2000/ 2000US-0226681P.
PR 22-AUG-2000/ 2000US-0226868P.
PR 22-AUG-2000/ 2000US-0227182P.
PR 23-AUG-2000/ 2000US-0227009P.
PR 30-AUG-2000/ 2000US-0228924P.
PR 01-SEP-2000/ 2000US-0229287P.
PR 01-SEP-2000/ 2000US-0229343P.
PR 01-SEP-2000/ 2000US-0229344P.
PR 01-SEP-2000/ 2000US-0229345P.
PR 05-SEP-2000/ 2000US-0229509P.
PR 05-SEP-2000/ 2000US-0229513P.
PR 06-SEP-2000/ 2000US-0230437P.
PR 06-SEP-2000/ 2000US-0230438P.
PR 08-SEP-2000/ 2000US-0231242P.
PR 08-SEP-2000/ 2000US-0231243P.
PR 08-SEP-2000/ 2000US-0231244P.
PR 08-SEP-2000/ 2000US-0231413P.
PR 08-SEP-2000/ 2000US-0231414P.
PR 08-SEP-2000/ 2000US-0231080P.
PR 08-SEP-2000/ 2000US-0231081P.
PR 12-SEP-2000/ 2000US-0231968P.
PR 14-SEP-2000/ 2000US-0233397P.
PR 14-SEP-2000/ 2000US-0233398P.
PR 14-SEP-2000/ 2000US-0233399P.
PR 14-SEP-2000/ 2000US-0233400P.
PR 14-SEP-2000/ 2000US-023401P.
PR 14-SEP-2000/ 2000US-0233063P.
PR 14-SEP-2000/ 2000US-0233064P.
PR 14-SEP-2000/ 2000US-0233065P.
PR 21-SEP-2000/ 2000US-0234223P.
PR 21-SEP-2000/ 2000US-0234274P.
PR 25-SEP-2000/ 2000US-023497P.
PR 25-SEP-2000/ 2000US-023498P.
PR 26-SEP-2000/ 2000US-0235484P.
PR 27-SEP-2000/ 2000US-0235834P.
PR 27-SEP-2000/ 2000US-0235835P.
PR 29-SEP-2000/ 2000US-0236327P.
PR 29-SEP-2000/ 2000US-0236367P.

PR 29-SEP-2000/ 2000US-0236368P.
PR 29-SEP-2000/ 2000US-0236369P.
PR 29-SEP-2000/ 2000US-0236370P.
PR 02-OCT-2000/ 2000US-0236802P.
PR 02-OCT-2000/ 2000US-0237037P.
PR 02-OCT-2000/ 2000US-0237038P.
PR 02-OCT-2000/ 2000US-0237039P.
PR 02-OCT-2000/ 2000US-0237040P.
PR 13-OCT-2000/ 2000US-0239935P.
PR 13-OCT-2000/ 2000US-0239937P.
PR 20-OCT-2000/ 2000US-0240960P.
PR 20-OCT-2000/ 2000US-0241221P.
PR 20-OCT-2000/ 2000US-0241785P.
PR 20-OCT-2000/ 2000US-0241786P.
PR 20-OCT-2000/ 2000US-0241787P.
PR 20-OCT-2000/ 2000US-0241808P.
PR 20-OCT-2000/ 2000US-0241809P.
PR 20-OCT-2000/ 2000US-0241826P.
PR 01-NOV-2000/ 2000US-0244617P.
PR 01-NOV-2000/ 2000US-0244617P.
PR 08-NOV-2000/ 2000US-0246474P.
PR 08-NOV-2000/ 2000US-0246475P.
PR 08-NOV-2000/ 2000US-0246476P.
PR 08-NOV-2000/ 2000US-0246477P.
PR 08-NOV-2000/ 2000US-0246478P.
PR 08-NOV-2000/ 2000US-0246523P.
PR 08-NOV-2000/ 2000US-0246524P.
PR 08-NOV-2000/ 2000US-0246525P.
PR 08-NOV-2000/ 2000US-0246526P.
PR 08-NOV-2000/ 2000US-0246527P.
PR 08-NOV-2000/ 2000US-0246528P.
PR 08-NOV-2000/ 2000US-0246532P.
PR 08-NOV-2000/ 2000US-0246609P.
PR 08-NOV-2000/ 2000US-0246610P.
PR 08-NOV-2000/ 2000US-0246611P.
PR 08-NOV-2000/ 2000US-0246613P.
PR 17-NOV-2000/ 2000US-0249207P.
PR 17-NOV-2000/ 2000US-0249208P.
PR 17-NOV-2000/ 2000US-0249209P.
PR 17-NOV-2000/ 2000US-0249210P.
PR 17-NOV-2000/ 2000US-0249211P.
PR 17-NOV-2000/ 2000US-0249212P.
PR 17-NOV-2000/ 2000US-0249213P.
PR 17-NOV-2000/ 2000US-0249214P.
PR 17-NOV-2000/ 2000US-0249215P.
PR 17-NOV-2000/ 2000US-0249216P.
PR 17-NOV-2000/ 2000US-0249217P.
PR 17-NOV-2000/ 2000US-0249218P.
PR 17-NOV-2000/ 2000US-0249244P.
PR 17-NOV-2000/ 2000US-0249245P.
PR 17-NOV-2000/ 2000US-0249246P.
PR 17-NOV-2000/ 2000US-0249265P.
PR 17-NOV-2000/ 2000US-0249267P.
PR 17-NOV-2000/ 2000US-0249299P.
PR 17-NOV-2000/ 2000US-0249300P.
PR 01-DEC-2000/ 2000US-0250160P.
PR 01-DEC-2000/ 2000US-0250391P.
PR 05-DEC-2000/ 2000US-0251030P.
PR 05-DEC-2000/ 2000US-0251988P.
PR 05-DEC-2000/ 2000US-0256719P.
PR 06-DEC-2000/ 2000US-0251479P.
PR 08-DEC-2000/ 2000US-0251856P.
PR 08-DEC-2000/ 2000US-0251868P.
PR 08-DEC-2000/ 2000US-0251869P.
PR 08-DEC-2000/ 2000US-0251989P.
PR 08-DEC-2000/ 2000US-0251990P.
PR 11-DEC-2000/ 2000US-0254097P.
PR 05-JAN-2001/ 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.
XX
XX PA
PI Rosen CA, Baraah SC, Ruben SM;
XX
DR WPI; 2001-483232/52.

XX Nucleic acids encoding 973 human testicular antigen polypeptides, useful
PT for preventing, diagnosing and/or treating testicular cancer.
XX
PS Disclosure: SEQ ID NO 2966; 766bp; English.
XX
CC The present invention provides the protein and coding sequences of 973
CC human testicular antigens, and fragments of their genomic sequences. The
CC sequences can be used in the treatment of cardiovascular, urinary system,
CC reproductive system, immune, respiratory, neurological and
CC gastrointestinal disorders, infections, and particularly cancer,
CC especially testicular cancers. The present sequence is a DNA encoding a
CC protein fragment of the invention
XX
SQ Sequence 31474 BP; 9245 A; 6055 C; 6292 G; 9882 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 4; Length 31474;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTGCACCTGACCTGACCTGGGCAAGAGCAAGACTGTCTTC 3122
Db 72 AGATTGTGCACCTGACCTGACCTGGGCAAGAGCAAGACTGTCTTC 23
RESULT 50
AAS30115/C
ID AAS30115 standard; DNA; 32189 BP.
XX
XX AAS30115;
XX
DT 21-NOV-2001 (first entry)
XX
DB Human lung antigen genomic DNA #185.
XX
XX Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;
KW chicken; sheep; immunosuppressive; antiarthritic; vasotropic;
KW antirheumatic; antiproliferative; cytosolic; cardiac; neuroprotective;
KW cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer;
KW ophthalmological; vulnery; gene therapy; autoimmune disease; neoplasm;
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
KW cerebrovascular disorder; nervous system disorder; bacterial infection;
KW fungal infection; viral infection; ocular disorder; endocrine disorder;
KW gastrointestinal disorder; renal disorder; respiratory disorder;
KW wound healing; skin aging; organ transplantation; food preservative;
KW tissue regeneration; anti-infertility; food additive.
XX
XX Homo sapiens.
OS
XX
XX WO200155303-A2.
PN
XX
XX 02-AUG-2001.
PD
XX
XX
XX 17-JAN-2001; 2001WO-US001301.
PF
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214866P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0232603P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234223P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.

PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251033P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251865P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Baraash SC, Ruben SM;
XX WPI; 2001-457723/49.
XX
PT Isolated polypeptide for treating, preventing and/ or prognosing
PT respiratory disorders related to the lung including lung cancers and also
PT for testing and detection e.g. diagnosis.
XX
XX
XX Claim 1; SEQ ID NO 379; 507bp; English.
XX
XX Sequences AA529931-AA530164 represent genomic DNA molecules, which encode
XX the lung antigen polypeptides of the invention. Lung antigen polypeptides
XX and their associated polymucleotides are useful in the diagnosis,
XX treatment and prevention of various types of disorders in e.g. humans,
XX mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A
XX pathological condition can be determined by detecting the presence or
XX absence of a mutation in a lung antigen polymucleotide. The treatable
XX disorders include autoimmune diseases such as rheumatoid arthritis,
XX hyperproliferative disorders such as neoplasms of the breast or liver,
XX cardiovascular disorders such as cardiac arrest, cerebrovascular
XX disorders such as cerebral ischaemia, nervous system disorders such as
XX Alzheimer's disease, infections caused by bacteria, viruses and fungi,
XX ocular disorders such as corneal infection, endocrine disorders such as
XX premature labour and infertility, gastrointestinal disorders such as
XX Crohn's disease, renal disorders such as glomerulonephritis and

CC respiratory disorders such as asthma and pleurisy. The polypeptides can
CC also be used to aid wound healing, to prevent skin aging due to sunburn,
CC to maintain organs before transplantation, to regenerate tissues and in
CC chemotaxis. The polypeptides can also be used as a food additive or
CC preservative to increase or decrease storage capabilities. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
Query Match 1.64; Score 50; DB 5; Length 32189;
Best Local Similarity 100.0%; Pred. No. 1,3e-12; Mismatches 0; Gaps 0;
Matches 50; Conservative 0; Mismatches 0; Indels 0;
QY 3073 AGATTGCGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 3122
DB 12517 AGATTGCGCACTGCAGCTCCAGCTTGCGCAACAGAGCAAGACTCTGTCTC 12468
|||||
RESULT 51
ADB33452/C
ID ADB33452 standard; DNA; 32189 BP.
XX
AC ADB33452;
XX
DT 04-DEC-2003 (first entry)
XX
XX Human novel lung related polypeptide DNA SEQ ID NO 379.
KM gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia;
KM adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis;
KM immunodeficiency; X-linked agammaglobulinemia;
KM X-linked infantile agammaglobulinemia; inflammatory disorder;
KM adrenoleitis; alveolitis; immune complex disease; serum sickness;
KM polyarteritis nodosa; bleeding disorder; thrombocytopenia;
KM Von Willebrand's disease; acquired platelet dysfunction; kidney failure;
KM multiple myeloma; macrophage related disorder; Gaucher's disease;
KM Neimann-Pick disease; tumour; colon cancer; pancreatic cancer;
KM renal disorder; nephritis; bone disorder; Albers-Schonberg disease;
KM bowleg; muscle disorder; Becker's muscular dystrophy;
KM Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion;
KM traumatic lesion; endocrine disorder; Cushing's syndrome;
KM corticosteroid deficiency; gastrointestinal disorder; dysphagia;
KM gastric reflux; human; ds.
XX
XX Homo sapiens.
XX
XX PN US2003054368-A1.
XX
XX PD 20-MAR-2003.
XX
XX PF 22-FEB-2002; 2002US-00079854.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 30-JUN-2000; 2000US-0214886P.
PR 28-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.

CC ; endocrine disorders such as Cushing's syndrome, corticosteroid

Query Match 1.6%; Score 50; DB 10; Length 32189;

Best Local Similarity 100.0%; Pred. No. 1.3e-12; Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTGCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122

Db 12517 AGATTGTGCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 12468

RESULT 52
AADI6595/C
ID AADI6595 standard; DNA; 32193 BP.

XX AADI6595;

DT 19-NOV-2001 (first entry)

XX Human novel protein-encoding gene 7, SEQ ID NO:37.

XX Human; iron-associated protein; gene therapy; autoimmune disease;
KM rheumatoid arthritis; hyperproliferative disorder; neoplasm; fungicide;
KM cardiovascular disorder; cardiac arrest; cerebrovascular disorder;
KM cerebral ischaemia; angiogenesis; nervous system disorder; chemotaxis;
KM Alzheimer's disease; infection; ocular disorder; cerebroprotective;
KM skin aging; food additive; food preservative; immunosuppressive;
KM antiarthritic; antiproliferative; wound healing; cardiac; vasotropic;
KM neurotropic; cytosstatic; antirheumatic; neuroprotective; antibacterial;
KM virucide; ophthalmological; chromosome 2q33-q34; db.

XX Homo sapiens.

XX Key Location/Qualifiers

FT 1.218
FT /*tag= a
FT 219..305
FT /*tag= b
FT 306..1101
FT /*tag= c
FT 1102..1160
FT /*tag= d
FT 1161..1191
FT /*tag= e
FT 1192..1386
FT /*tag= f
FT 1387..2353
FT /*tag= g
FT 2354..2392
FT /*tag= h
FT 2393..2766
FT /*tag= i
FT 2767..2869
FT /*tag= j
FT 2870..3378
FT /*tag= k
FT 3379..3461
FT /*tag= l
FT 3462..3949
FT /*tag= m
FT 3950..4405
FT /*tag= n
FT 4406..4834
FT /*tag= o
FT 4835..6646
FT /*tag= p
FT 6647..6928
FT /*tag= q
FT 6929..8021
FT /*tag= r
FT 8022..8980
FT /*tag= s
FT 8981..9246

FT /*tag= t
FT 9247..9313
FT /*tag= u
FT 9314..9327
FT /*tag= v
FT 9328..9714
FT /*tag= w
FT 9715..10267
FT /*tag= x
FT 10268..10850
FT /*tag= y
FT 10851..10942
FT /*tag= z
FT 10943..11059
FT /*tag= aa
FT 11060..11061
FT /*tag= ab
FT 11062..11399
FT /*tag= ac
FT 11400..11570
FT /*tag= ad
FT 11571..12017
FT /*tag= ae
FT 12018..13006
FT /*tag= af
FT 13007..13119
FT /*tag= ag
FT 13120..13836
FT /*tag= ah
FT 13837..13912
FT /*tag= ai
FT 13913..15093
FT /*tag= aj
FT 15094..15179
FT /*tag= ak
FT 15180..15267
FT /*tag= al
FT 15268..15402
FT /*tag= am
FT 15401..15840
FT /*tag= an
FT 15841..16053
FT /*tag= ao
FT 16054..17899
FT /*tag= ap
FT 17900..18039
FT /*tag= aq
FT 18040..18796
FT /*tag= ar
FT 18797..18912
FT /*tag= as
FT 18913..20098
FT /*tag= at
FT 20099..20246
FT /*tag= au
FT 20247..20861
FT /*tag= av
FT 20862..20990
FT /*tag= aw
FT 20991..21552
FT /*tag= ax
FT 21320..24258
FT /*tag= ab
FT 21553..21666
FT /*tag= ay
FT 21667..22204
FT /*tag= az
FT 22205..22319
FT /*tag= ba
FT 24259..24452
FT /*tag= bc
FT 24453..25681
FT /*tag= bd

FT	exon	25682..25991	/tag= be
FT	intron	25992..26053	/tag= bf
FT	exon	26054..26158	/tag= bg
FT	intron	26159..26324	/tag= bh
FT	exon	26325..26539	/tag= bi
FT	intron	26540..29316	/tag= bj
FT	exon	29317..29991	/tag= bk
FT	intron	29992..32275	/tag= bl
FT	exon	32276..32335	/tag= bm
FT	intron	32336..32657	/tag= bn
FT	exon	32658..32844	/tag= bo
FT	intron	32845..34941	/tag= bp
FT	exon	34942..35137	/tag= bq
FT	intron	35138..36084	/tag= br
FT	exon	36085..36224	/tag= bs
FT	intron	36225..36317	/tag= bt
FT	exon	36318..36392	/tag= bu
FT	intron	36393..38584	/tag= bv
FT	exon	38585..39852	/tag= bw
XX			
PN		WO20015307-A2.	
XX			
PD	02-AUG-2001.		
PF	17-JAN-2001; 2001WO-US001306.		
XX			
PR	31-JAN-2000; 2000US-0179065P.		
PR	04-FEB-2000; 2000US-0180628P.		
PR	24-FEB-2000; 2000US-0184664P.		
PR	02-MAR-2000; 2000US-0186350P.		
PR	16-MAR-2000; 2000US-0189874P.		
PR	17-MAR-2000; 2000US-0190076P.		
PR	18-APR-2000; 2000US-0198123P.		
PR	19-MAY-2000; 2000US-0205151P.		
PR	07-JUN-2000; 2000US-0209467P.		
PR	28-JUN-2000; 2000US-0214886P.		
PR	30-JUN-2000; 2000US-0215135P.		
PR	07-JUL-2000; 2000US-0216477P.		
PR	07-JUL-2000; 2000US-0216880P.		
PR	11-JUL-2000; 2000US-0217487P.		
PR	14-JUL-2000; 2000US-0218290P.		
PR	26-JUL-2000; 2000US-0220963P.		
PR	26-JUL-2000; 2000US-0220964P.		
PR	14-AUG-2000; 2000US-0224518P.		
PR	14-AUG-2000; 2000US-0224519P.		
PR	14-AUG-2000; 2000US-0225213P.		
PR	14-AUG-2000; 2000US-0225214P.		

Query Match 1.6%; Score 50; DB 4; Length 32193;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3073 AGATTGTGCACCTGCACCTCCAGCTGGGCAACAGACGAACTCTGTCTC 3122

DB	28855	AGATTGTGCACCTGCACCTCCAGCTGGGCAACAGACGAACTCTGTCTC 28806
RESULT 53		
ID	AA136258/c	
XX	AA136258 standard; DNA; 32193 BP.	
AC	AA136258;	
DT	08-JAN-2002 (first entry)	
XX		
DE	Human musculoskeletal system related polynucleotide seq ID NO 2623.	
XX		
KW	Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;	
KW	antiallergic; hepatotropic; antidiabetic; antiinflammatory; antitumor;	
KW	vulnerable; anticonvulsant; antibacterial; antifungal; antiparasitic;	
KW	cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;	
KW	neurological disease; infection; human; secreted protein;	
KW	musculoskeletal system; ds.	
XX		
OS	Homo sapiens.	
XX		
PN	WO20015367-A1.	
XX		
PD	02-AUG-2001.	
XX		
PF	17-JAN-2001; 2001WO-US001338.	
XX		
PR	31-JAN-2000; 2000US-0179065P.	
PR	04-FEB-2000; 2000US-0180628P.	
PR	24-FEB-2000; 2000US-0184664P.	
PR	02-MAR-2000; 2000US-0186350P.	
PR	16-MAR-2000; 2000US-0189874P.	
PR	17-MAR-2000; 2000US-0190076P.	
PR	18-APR-2000; 2000US-0198123P.	
PR	19-MAY-2000; 2000US-0205151P.	
PR	07-JUN-2000; 2000US-0209467P.	
PR	28-JUN-2000; 2000US-0214886P.	
PR	30-JUN-2000; 2000US-0215135P.	
PR	07-JUL-2000; 2000US-0216477P.	
PR	07-JUL-2000; 2000US-0216880P.	
PR	11-JUL-2000; 2000US-0217487P.	
PR	14-JUL-2000; 2000US-0218290P.	
PR	14-JUL-2000; 2000US-0218290P.	
PR	26-JUL-2000; 2000US-0220963P.	
PR	26-JUL-2000; 2000US-0220964P.	
PR	14-AUG-2000; 2000US-0224518P.	
PR	14-AUG-2000; 2000US-0224519P.	
PR	14-AUG-2000; 2000US-0225213P.	
PR	14-AUG-2000; 2000US-0225214P.	
PR	14-AUG-2000; 2000US-0225266P.	
PR	14-AUG-2000; 2000US-0225267P.	
PR	14-AUG-2000; 2000US-0225268P.	
PR	14-AUG-2000; 2000US-0225270P.	
PR	14-AUG-2000; 2000US-0225447P.	
PR	14-AUG-2000; 2000US-0225757P.	
PR	14-AUG-2000; 2000US-0225758P.	
PR	14-AUG-2000; 2000US-0225759P.	
PR	18-AUG-2000; 2000US-0226279P.	
PR	22-AUG-2000; 2000US-0226681P.	
PR	22-AUG-2000; 2000US-0226686P.	
PR	22-AUG-2000; 2000US-0227182P.	
PR	23-AUG-2000; 2000US-0227009P.	
PR	30-AUG-2000; 2000US-0228924P.	
PR	01-SEP-2000; 2000US-0229287P.	
PR	01-SEP-2000; 2000US-0229343P.	
PR	01-SEP-2000; 2000US-0229344P.	
PR	01-SEP-2000; 2000US-0229345P.	
PR	05-SEP-2000; 2000US-0229509P.	
PR	05-SEP-2000; 2000US-0229513P.	
PR	06-SEP-2000; 2000US-0230437P.	
PR	06-SEP-2000; 2000US-0230438P.	

PR 08-SEP-2000; 2000US-0231242P.
 PR 08-SEP-2000; 2000US-0231243P.
 PR 08-SEP-2000; 2000US-0231244P.
 PR 08-SEP-2000; 2000US-0231413P.
 PR 08-SEP-2000; 2000US-0231414P.
 PR 08-SEP-2000; 2000US-0232080P.
 PR 08-SEP-2000; 2000US-0232081P.
 PR 12-SEP-2000; 2000US-0231968P.
 PR 14-SEP-2000; 2000US-0232398P.
 PR 14-SEP-2000; 2000US-0232399P.
 PR 14-SEP-2000; 2000US-0232399P.
 PR 14-SEP-2000; 2000US-0232400P.
 PR 14-SEP-2000; 2000US-0232401P.
 PR 14-SEP-2000; 2000US-0233063P.
 PR 14-SEP-2000; 2000US-0233064P.
 PR 14-SEP-2000; 2000US-0233065P.
 PR 21-SEP-2000; 2000US-0234223P.
 PR 21-SEP-2000; 2000US-0234274P.
 PR 25-SEP-2000; 2000US-0234997P.
 PR 25-SEP-2000; 2000US-0234998P.
 PR 26-SEP-2000; 2000US-0235484P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 13-OCT-2000; 2000US-0239937P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241221P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241826P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.
 PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246533P.
 PR 08-NOV-2000; 2000US-0246609P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.

PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249246P.
 PR 17-NOV-2000; 2000US-0249265P.
 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 06-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-451937/48.
 DR
 XX
 XX
 PT Isolated polypeptide for treating, preventing and/or prognosing
 disorders related to the musculoskeletal system including musculoskeletal
 cancers and also for testing and detection e.g. diagnosis.
 PT
 XX
 XX Example 2; SEQ ID NO 2623; 781pp + Sequence Listing; English.
 PS
 XX The invention relates to novel genes (AAU34663-AAU37666) and proteins
 CC (ABB01087-ABB04109) associated with the musculoskeletal system useful for
 CC preventing, treating or ameliorating medical conditions e.g. by protein
 CC or gene therapy. The genes are isolated from a range of human tissues
 CC disclosed in the specification. The nucleic acids, proteins, antibodies
 CC and (ant)agonists are useful in the diagnosis, treatment and prevention
 CC of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
 CC lung, or urogenital; (b) immune disorders e.g. Addison's disease,
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
 CC myocardial ischaemia; (d) wound healing; (e) neurological diseases e.g.
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
 CC bacterial, fungal and parasitic infections. Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;
 Query Match 1.6%; Score 50; DB 4; Length 32193;
 Best Local Similarity 100.0%; Pred. No. 1.3e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Gy 3073 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122
 Db 28855 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 28806
 RESULT 54
 ABX59246/c
 ID ABX59246 standard; cDNA; 32193 BP.
 XX
 AC ABX59246;
 XX
 DT 26-FEB-2003 (first entry)
 XX
 DE cDNA encoding novel human musculoskeletal system antigen #1590.
 XX
 KW Gene; ss; musculoskeletal system antigen; cancer; metastasis;

re-vascularisation; thrombosis; arteriosclerosis; mineral content;
 cardiovascular condition; wound; injury; burn; angiogenesis; ulcer;
 post-operative tissue repair; limb regeneration; neuronal growth;
 neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
 AIDS-related complex; chondrocyte growth; bone regeneration;
 periodontal regeneration; tissue transport; bone graft; skin aging;
 keratinocyte growth; hair loss; melanocyte growth; cell proliferation;
 cell growth; organ transplant; cell differentiation; body height; weight;
 hair colour; eye colour; skin; percentage of adipose tissue;
 pigmentation; cosmetic surgery; metabolism; biorhythm; cardiac rhythm;
 depression; tendency for violence; pain; reproductive capability;
 hormone level; endocrine level; appetite; libido; memory; stress;
 storage capability; fat content; lipid content; protein content;
 carbohydrate content; vitamin content; cofactor content;
 nutritional component.

XX Homo sapiens.
 OS
 XX
 XX US2002147140-A1.
 XX
 XX
 XX 10-OCT-2002.
 PD
 XX
 XX 17-JAN-2001; 2001US-00764877.
 PF
 XX
 XX 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 28-JUN-2000; 2000US-0214886P.
 PR 07-JUL-2000; 2000US-0216647P.
 PR 07-JUL-2000; 2000US-0216880P.
 PR 11-JUL-2000; 2000US-0217487P.
 PR 11-JUL-2000; 2000US-0217496P.
 PR 14-JUL-2000; 2000US-0218290P.
 PR 26-JUL-2000; 2000US-0220963P.
 PR 26-JUL-2000; 2000US-0220964P.
 PR 14-AUG-2000; 2000US-0224518P.
 PR 14-AUG-2000; 2000US-0224519P.
 PR 14-AUG-2000; 2000US-0225267P.
 PR 14-AUG-2000; 2000US-0225268P.
 PR 14-AUG-2000; 2000US-0225270P.
 PR 14-AUG-2000; 2000US-0225447P.
 PR 14-AUG-2000; 2000US-0225757P.
 PR 14-AUG-2000; 2000US-0225758P.
 PR 22-AUG-2000; 2000US-0226868P.
 PR 30-AUG-2000; 2000US-0228924P.
 PR 01-SEP-2000; 2000US-0228287P.
 PR 01-SEP-2000; 2000US-0228343P.
 PR 01-SEP-2000; 2000US-0229344P.
 PR 01-SEP-2000; 2000US-0229345P.
 PR 05-SEP-2000; 2000US-0229509P.
 PR 05-SEP-2000; 2000US-0229513P.
 PR 08-SEP-2000; 2000US-0231413P.
 PR 21-SEP-2000; 2000US-0234223P.
 PR 21-SEP-2000; 2000US-0234274P.
 PR 25-SEP-2000; 2000US-0234977P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 29-SEP-2000; 2000US-0235327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239335P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.

PR 08-DEC-2000; 2000US-0251869P.
 XX
 XX (ROSE/) ROSEN C A.
 PA (RUDE/) ROSEN S M.
 PA (BARA/) BARASH S C.
 XX
 XX Rosen CA, Ruben SM, Barash SC;
 DR WPI, 2003-128199/12.
 XX
 XX
 PT Isolated nucleic acid molecules encoding musculoskeletal system
 PT associated polypeptides, useful for detecting disorders, e.g. cancer.
 XX
 XX
 PS Disclosure; SEQ ID NO 2623; 321pp; English.
 XX
 XX
 CC The invention describes an isolated nucleic acid molecule comprising a
 CC sequence encoding musculoskeletal system associated polypeptides useful
 CC for detecting disorders, e.g., cancer or cancer metastases, in animals or
 CC humans. The nucleic acid: stimulates re-vascularization of ischemic
 CC tissues associated with conditions such as thrombosis, arteriosclerosis,
 CC and other cardiovascular conditions; treats wounds due to injuries,
 CC burns, post-operative tissue repair, and ulcers; stimulates angiogenesis
 CC and limb regeneration; stimulates neuronal growth; can treat and prevent
 CC neuronal damage occurring in certain disorders or neurodegenerative
 CC conditions, such as, Alzheimer's disease, Parkinson's disease, and AIDS-
 CC related complex; stimulates chondrocyte growth, thus they can be used to
 CC enhance bone and periodontal regeneration and aid in tissue transports or
 CC bone grafts; prevents skin aging due to sunburn by stimulating
 CC keratinocyte growth; prevents hair loss, since FGF family members
 CC activate hair-forming cells and promotes melanocyte growth; stimulates
 CC growth and differentiation of hematopoietic cells and bone marrow cells
 CC when used in combination with other cytokines; maintains organs before
 CC transplantation or for supporting cell culture of primary tissues;
 CC induces tissue of mesodermal origin to differentiate in early embryos;
 CC increases or decreases the differentiation or proliferation of embryonic
 CC stem cells, besides, hematopoietic lineage; modulates mammalian
 CC characteristics, such as, body height, weight, hair colour, eye colour,
 CC skin, percentage of adipose tissue, pigmentation, size, and shape (e.g.,
 CC cosmetic surgery); modulates mammalian metabolism; changes mammal's metal
 CC state or physical state by influencing biohythms, cardiac rhythm,
 CC depression, tendency for violence, tolerance for pain, reproductive
 CC capabilities, hormonal or endocrine levels, appetite, libido, memory, or
 CC stress; increases or decreases storage capabilities, fat content, lipid,
 CC protein, carbohydrate, vitamins, minerals, cofactors or other nutritional
 CC components. This sequence encodes a novel human musculoskeletal system
 CC antigen. Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from the US patent office at
 CC ftp.segdata.uspro.gov/sequence.html?DocID=20020147140
 XX
 XX Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;
 SQ
 Query Match 1.6%; Score 50; DB 8; Length 32193;
 Best Local Similarity 100.0%; Pred. No. 1,3e-12;
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3073 AGATTGTCACATGCACTCCAGCTGCGCAACAGAGCAAGACTGTCTTC 3122
 Db 28855 AGATTGTCACATGCACTCCAGCTGCGCAACAGAGCAAGACTGTCTTC 28806
 RESULT 55
 ADG62943/C
 ID ADG62943 standard; DNA; 32193 BP.
 XX
 XX ADG62943;
 AC
 XX
 XX 11-MAR-2004 (first entry)
 XX
 XX Genomic DNA encoding human NOVX protein seg id 37.
 DE
 XX
 XX neuroprotective; nootropic; respiratory; cardiovascular;
 KW gastrointestinal; antiparkinsonian; immunosuppressive; dermatological;

PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0255719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-02559678P.
PR 17-JAN-2001; 2001US-00764883.
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM, Barash SC;
DR WPI; 2003-901052/82.
XX
XX New polypeptides and nucleic acid molecules for diagnosing, preventing or
PT treating diseases associated with aberrant expression or activity of the
PT polypeptide, e.g. cancer, asthma, AIDS, Parkinson's disease or diabetes.
XX
PS Disclosure; SEQ ID NO 37; 194pp; English.
XX
CC The invention describes an isolated nucleic acid molecule (1) encoding a
CC protein comprising a sequence that is at least 95% identical to: a
CC polynucleotide fragment of any of the nucleotide sequences listed in the
CC specification, or of the cDNA sequences listed in the specification,
CC which is hybridizable to the nucleotide sequences; a polynucleotide
CC encoding a polypeptide or a polypeptide fragment, domain or epitope of
CC any of the amino acid sequences listed in the specification, or a
CC polypeptide or a polypeptide fragment, domain or epitope encoded by the
CC cDNA sequence mentioned above; a polynucleotide which is an (allelic)
CC variant of the nucleotide sequences listed in the specification; a
CC polynucleotide which encodes a species homologue of the above amino acid
CC sequences; or a polynucleotide capable of hybridizing under stringent
CC conditions to any of the above polynucleotides, where the polynucleotide
CC does not hybridize under stringent conditions to a nucleic acid molecule
CC having a nucleotide sequence of only A or T residues. The nucleic acid
CC molecule and polypeptide are useful in diagnosing, preventing, prognosing
CC or treating diseases or disorders associated with aberrant expression
CC and/or activity of the above polypeptide, such as neural disorders,
CC immune system disorders, muscular disorders, reproductive disorders,
CC
Query Match 1.6%; Score 50; DB 10; Length 32193;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTCACCTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
Db 28855 AGATTGTCACCTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 28806
RESURF 56
ADJ29996/C
ID ADJ29996 standard; DNA; 32193 BP.
XX
XX ADJ29996;
DT 20-MAY-2004 (first entry)
XX
XX Human musculoskeletal system-associated genomic DNA - SEQ ID 2673.
XX
XX musculoskeletal system; cytosolic; osteopathic; cancer; osteoporosis;
XX gene therapy; vaccine; human; de.
XX
XX Homo sapiens.
XX
XX US2004009488-A1.
XX
XX 15-JAN-2004.
XX
XX

PF 13-SEP-2002; 2002US-00242515.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190075P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225475P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0231415P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234224P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.

```
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241212P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241809P.
PR 01-NOV-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251855P.
PR 08-DEC-2000; 2000US-0251866P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-025678P.
PR 17-JAN-2001; 2001US-00764877.
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Ruben SM, Barash SC;
XX WPI; 2004-090458/09.
XX
```

```
PT New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g., cancer of
PT musculoskeletal tissues or osteoporosis.
PS
XX Disclosure; SEQ ID NO 2623; 289pp; English.
XX
CC The invention relates to a novel isolated musculoskeletal system-
CC associated nucleic acid molecule. The nucleic acid of the invention
CC demonstrates cytoskeletal and osteopathic activities and may be useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition such as cancer of the musculoskeletal tissues or osteoporosis,
CC possibly via gene therapy or vaccine production. The current sequence is
CC that of the human musculoskeletal system-associated genomic DNA of the
CC invention. The current sequence is not shown within the specification per
CC se but is available on the USPTO web-site
CC http://seqdata.uspto.gov/sequence.html?docID=20040009488.
XX
SQ Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 12; Length 32193;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGCGCAGCTGCACTCCAGCTGGGCAACGAGCAAGCACTCTGCTC 3122
DB 2885 AGATTGCGCAGCTGCACTCCAGCTGGGCAACGAGCAAGCACTCTGCTC 28806
RESULT 57
AAS30113/c
ID AAS30113 standard; DNA; 32221 BP.
XX
AC AAS30113;
XX
DT 21-NOV-2001 (first entry)
XX
DE Human lung antigen genomic DNA #183.
XX
KW Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;
KW chicken; sheep; immunosuppressive; antitachytic; vasotropic;
KW antineumatic; antiproliferative; cytostatic; cardiant; neuroprotective;
KW cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer;
KW ophtalmological; vulnarity; gene therapy; autoimmune disease; neoplasm;
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
KW cerebrovascular disorder; nervous system disorder; bacterial infection;
KW fungal infection; viral infection; ocular disorder; endocrine disorder;
KW gastrointestinal disorder; renal disorder; respiratory disorder;
KW wound healing; skin aging; organ transplantation; food preservative;
KW tissue regeneration; anti-infertility; food additive.
XX
XX Homo sapiens.
XX
XX WO200155303-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001301.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 16-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX
```

PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220936P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-022547P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226779P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 12-SEP-2000; 2000US-0232081P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239335P.
PR 13-OCT-2000; 2000US-0239337P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCT INC.
XX
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI, 2001-457723/49.
XX
PT Isolated polypeptide for treating, preventing and/ or prognosing
PT respiratory disorders related to the lung including lung cancers and also
XX for testing and detection e.g. diagnosis.
XX
PS Claim 1; SEQ ID NO 377; 507bp; English.
XX
CC Sequences AAS29931-AAS30164 represent genomic DNA molecules, which encode
CC the lung antigen polypeptides of the invention. Lung antigen polypeptides
CC and their associated polymucleotides are useful in the diagnosis,
CC treatment and prevention of various types of disorders in e.g. humans,
CC mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A
CC pathological condition can be determined by detecting the presence or
CC absence of a mutation in a lung antigen polymucleotide. The treatable
CC disorders include autoimmune diseases such as rheumatoid arthritis,
CC hyperproliferative disorders such as neoplasms of the breast or liver,
CC cardiovascular disorders such as cardiac arrest, cerebrovascular
CC disorders such as cerebral ischaemia, nervous system disorders such as
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi,
CC

CC ocular disorders such as corneal infection, endocrine disorders such as
CC premature labour and infertility, gastrointestinal disorders such as
CC Crohn's disease, renal disorders such as glomerulonephritis and
CC respiratory disorders such as asthma and pleurisy. The polypeptides can
CC also be used to aid wound healing, to prevent skin aging due to sunburn,
CC to maintain organs before transplantation, to regenerate tissues and in
CC chemotaxis. The polypeptides can also be used as a food additive or
CC preservative to increase or decrease storage capabilities. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences

Query Match 1.6%; Score 50; DB 5; Length 32221;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;

Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGGCCATGCTGCTCCAGCTGGGCAACAGCAAGCAAGCTGTCTC 3122
DB 12548 AGATTGGCCATGCTGCTCCAGCTGGGCAACAGCAAGCAAGCTGTCTC 12499

RESULT 58
ADB33450/C
ID ADB33450 standard; DNA; 32221 BP.

AC ADB33450;

DT 04-DEC-2003 (first entry)

DB Human novel lung related polypeptide DNA SEQ ID NO 377.

XX gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia;
KM adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis;
KM immunodeficiency; X-linked agammaglobulinaemia;
KM X-linked infantile agammaglobulinaemia; inflammatory disorder;
KM adrenarthritis; alveolitis; immune complex disease; serum sickness;
KM polyarteritis nodosa; bleeding disorder; thrombocytopenia;
KM Von Willebrand's disease; acquired platelet dysfunction; kidney failure;
KM multiple myeloma; macrophage related disorder; Gaucher's disease;
KM Neimann-Pick disease; tumour; colon cancer; pancreatic cancer;
KM renal disorder; nephritis; bone disorder; Albers-schönberg disease;
KM bowleg; muscle disorder; Becker's muscular dystrophy;
KM Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion;
KM traumatic lesion; endocrine disorder; Cushing's syndrome;
KM corticosteroid deficiency; gastrointestinal disorder; dysphagia;
KM gastric reflux; human; ds.

XX Homo sapiens.

XX US2003054368-A1.

XX 20-MAR-2003.

XX 22-FEB-2002; 2002US-00079854.

XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-019874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 14-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229345P.
PR 01-SEP-2000; 2000US-0229346P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 06-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236377P.
PR 29-SEP-2000; 2000US-0236378P.
PR 29-SEP-2000; 2000US-0236379P.
PR 29-SEP-2000; 2000US-0236380P.
PR 29-SEP-2000; 2000US-0236381P.
PR 29-SEP-2000; 2000US-0236382P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.

CC	PR	08-NOV-2000;	2000US-0246477P.
CC	PR	08-NOV-2000;	2000US-0246478P.
CC	PR	08-NOV-2000;	2000US-0246523P.
CC	PR	08-NOV-2000;	2000US-0246524P.
CC	PR	08-NOV-2000;	2000US-0246525P.
CC	PR	08-NOV-2000;	2000US-0246526P.
CC	PR	08-NOV-2000;	2000US-0246527P.
CC	PR	08-NOV-2000;	2000US-0246528P.
CC	PR	08-NOV-2000;	2000US-0246532P.
CC	PR	08-NOV-2000;	2000US-0246609P.
CC	PR	08-NOV-2000;	2000US-0246610P.
CC	PR	08-NOV-2000;	2000US-0246611P.
CC	PR	08-NOV-2000;	2000US-0246613P.
CC	PR	17-NOV-2000;	2000US-0249207P.
CC	PR	17-NOV-2000;	2000US-0249208P.
CC	PR	17-NOV-2000;	2000US-0249209P.
CC	PR	17-NOV-2000;	2000US-0249210P.
CC	PR	17-NOV-2000;	2000US-0249211P.
CC	PR	17-NOV-2000;	2000US-0249212P.
CC	PR	17-NOV-2000;	2000US-0249213P.
CC	PR	17-NOV-2000;	2000US-0249214P.
CC	PR	17-NOV-2000;	2000US-0249215P.
CC	PR	17-NOV-2000;	2000US-0249216P.
CC	PR	17-NOV-2000;	2000US-0249217P.
CC	PR	17-NOV-2000;	2000US-0249218P.
CC	PR	17-NOV-2000;	2000US-0249244P.
CC	PR	17-NOV-2000;	2000US-0249245P.
CC	PR	17-NOV-2000;	2000US-0249264P.
CC	PR	17-NOV-2000;	2000US-0249265P.
CC	PR	17-NOV-2000;	2000US-0249297P.
CC	PR	17-NOV-2000;	2000US-0249299P.
CC	PR	17-NOV-2000;	2000US-0249300P.
CC	PR	01-DEC-2000;	2000US-0250160P.
CC	PR	01-DEC-2000;	2000US-0250391P.
CC	PR	05-DEC-2000;	2000US-0251030P.
CC	PR	05-DEC-2000;	2000US-0251988P.
CC	PR	05-DEC-2000;	2000US-0256719P.
CC	PR	06-DEC-2000;	2000US-0251479P.
CC	PR	08-DEC-2000;	2000US-0251856P.
CC	PR	08-DEC-2000;	2000US-0251868P.
CC	PR	08-DEC-2000;	2000US-0251869P.
CC	PR	08-DEC-2000;	2000US-0251899P.
CC	PR	08-DEC-2000;	2000US-0251990P.
CC	PR	11-DEC-2000;	2000US-0254097P.
CC	PR	05-JAN-2001;	2001US-0259678P.
CC	PR	17-JAN-2001;	2001US-0076487E.
XX	(HUMA-)	HUMAN GENOME SCI INC.	
XX	PA		
XX	PI	Rosen CA, Ruben SW, Barash SC;	
XX	PJ	WPI; 2003-695900/66.	
DR	XX		
TX	PT	Novel isolated lung antigen polypeptides useful for treating, preventing,	
TX	PT	diagnosing acute myelogenous leukemias, adenocarcinoma, thrombocytopenia,	
TX	PT	Von Willebrand's disease.	
PS	XX		
PS	XX	Disclosure; SEQ ID NO 377; 178pp; English.	
CC	CC	The invention relates to an isolated lung antigen polypeptide sequence or	
CC	CC	encoded sequence in a cDNA clone. The polypeptide and its polynucleotide	
CC	CC	are useful for treating, preventing, diagnosing and/or prognosing	
CC	CC	diseases and/or disorders such as pathological cell proliferative	
CC	CC	neoplasia e.g. acute myelogenous leukaemia, adenocarcinoma; respiratory	
CC	CC	disorders such as chronic rhinitis, sinusitis; immunodeficiencies such as	
CC	CC	X-linked agammaglobulinaemia, X-linked infantile agammaglobulinaemia;	
CC	CC	inflammatory disorders such as adrenailtis, alveolitis; immune complex	
CC	CC	diseases such as serum sickness, polyarteritis nodosa; bleeding disorders	
CC	CC	such as thrombocytopenia, Von Willebrand's disease; acquired platelet	
CC	CC	dysfunction such as kidney failure, multiple myeloma; disorders	
CC	CC	associated with macrophage numbers and/or macrophage function such as	
CC	CC	Gaucher's disease, Niemann-Pick disease; tumours such as colon cancer,	
CC	CC	pancreatic cancer; renal disorders such as kidney failure, nephritis;	

Query Match 1.6%; Score 50; DB 10; Length 32221;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0

3073 AGATTGTGCACCTGCACTCCAGCCCTGGGCAACAGACAACTCTCTC 3122
|||||
Db 12548 AGATTGTGCACCTGCACTCCAGCCCTGGGCAACAGACAACTCTCTC 12499

RESULT 59
ABK22783
ID ABK22783 standard; cDNA; 36305 BP.
AC
XX ABK22783;
XX
DT 09-APR-2002 (first entry)
XX
DE Human high bone mass (HBM) polynucleotide clone #6.
XX
XX Human; mouse; Zmx1; HBM; high bone mass gene; lipid regulation; stroke;
XX lipid-associated condition; arteriosclerosis; cardiovascular disease; ss
XX osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque build-up;
XX neurovascular condition; wound healing; gene therapy; PCR primer; probe;
XX bone development disorder; antiarteriosclerotic; cardiovascular;
XX osteopathic; cerebroprotective.
XX
XX Homo sapiens.
OS
XX
PN WO200192891-A2.
XX
PD 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US016946.
PF
XX 26-MAY-2000; 2000US-00578900.
PR
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
PA (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.
XX
XX
PI Carull JF, Little RD, Recker RR, Johnson ML;
XX
XX WPI; 2002-097784/13.
DR
XX
XX
XX Identifying molecules involved in lipid regulation, useful for
PT diagnosing, treating or preventing e.g., arteriosclerosis, comprises
PT identifying a molecule that binds to high bone mass gene or its
PT corresponding wild type gene.
XX
XX
XX Example 2; Page 323-350; 409pp; English.

The invention relates to a method for identifying a molecule involved in
lipid regulation comprising identifying a molecule that binds to or
inhibits binding of a molecule to high bone mass (HBM) or its wild type
gene, Zmx1. Compounds identified by the method are useful for treating,
diagnosing, preventing or screening for normal and abnormal lipid-
associated conditions, including arteriosclerosis, cardiovascular
disease, stroke, and osteoporosis. The compounds may also be used in the
treatment or prevention of diabetic atherosclerosis, neurovascular
conditions caused by plaque build-up, poor circulation due to plaque
build-up and associated poor wound healing. The methods may be used in
gene therapy, pharmaceutical development, and diagnostic assays for bone
development disorders. Molecules identified by comparison of Zmx1 and
HBM systems can be used as surrogate markers in pharmaceutical
development, in diagnosis of human or animal bone disease, and in the
treatment of bone diseases. Sequences ABK22776-ABK23411 represent cDNA
molecules encoding human Zmx1 and HBM, and PCR primers, probes, linkers
and adaptors of the invention

```
SQ Sequence 36305 BP; 7938 A; 9658 C; 10106 G; 8602 T; 0 U; 1 Other;
Query Match 1.6%; Score 50; DB 6; Length 36305;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 5112 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 5161

RESULT 60
ACN44230/c
ID ACN44230 standard; DNA; 66973 BP.
XX
AC ACN44230;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG21559.
XX
XX Cytostratic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX
XX WO2003073826-A2.
XX
XX 12-SEP-2003.
XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 574; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vi) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published
XX
XX Sequence 66973 BP; 17853 A; 15429 C; 15874 G; 17537 T; 0 U; 280 Other;
XX
XX Query Match 1.6%; Score 50; DB 11; Length 66973;
XX Best Local Similarity 100.0%; Pred. No. 1.3e-12;
XX Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 29006 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 28957

RESULT 61
ACN44786
ID ACN44786 standard; DNA; 156843 BP.
XX
XX ACN44786;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG27192.
XX
XX Cytostratic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX
XX WO2003073826-A2.
XX
XX 12-SEP-2003.
XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 1408; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vi) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published
XX
XX Sequence 156843 BP; 33001 A; 41006 C; 43823 G; 36715 T; 0 U; 298 Other;
XX
XX Query Match 1.6%; Score 50; DB 11; Length 156843;
XX Best Local Similarity 100.0%; Pred. No. 1.2e-12;
XX Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 148232 AGATTGTCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 148281

RESULT 62
ADP75188
ID ADP75188 standard; DNA; 276820 BP.
XX
XX ADP75188;
XX
XX 12-AUG-2004 (first entry)
XX
XX Human ADAMTS2 gene.
XX
XX Human; chromosome 5; de; gene; ADAM19; Endophilin 1; Endophilin 2; NRG2;
XX ADAMTS2; a disintegrin and metalloprotease; neuroregulin 2; SNP;
XX single nucleotide polymorphism;
XX a disintegrin and metalloprotease with thrombospondin type1 motif 2;
XX asthma; atopy; obesity; inflammatory bowel disease; respiratory disorder.
XX
XX Homo sapiens.
XX
```

XX	Key	Location/Qualifiers	PT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7493,T)	FT	variation	replace(197776,T)
FT		/*tag= a	FT		/*tag= y
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7542,C)	FT	variation	replace(198901,G)
FT		/*tag= b	FT		/*tag= z
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7764,C)	FT	variation	replace(199161,A)
FT		/*tag= c	FT		/*tag= aa
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7805,C)	FT	variation	replace(199176,C)
FT		/*tag= d	FT		/*tag= ab
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143561,A)	FT	variation	replace(199313,C)
FT		/*tag= e	FT		/*tag= ac
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143591,G)	FT	variation	replace(211213,A)
FT		/*tag= f	FT		/*tag= ad
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143612,A)	FT	variation	replace(211241,C)
FT		/*tag= g	FT		/*tag= ae
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143623,A)	FT	variation	replace(211462,T)
FT		/*tag= h	FT		/*tag= af
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143638,A)	FT	variation	replace(213243,A)
FT		/*tag= i	FT		/*tag= ag
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143676,A)	FT	variation	replace(213294,A)
FT		/*tag= j	FT		/*tag= ah
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143748,T)	FT	variation	replace(213324,A)
FT		/*tag= k	FT		/*tag= ai
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143815,A)	FT	variation	replace(213555,A)
FT		/*tag= l	FT		/*tag= aj
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170091,T)	FT	variation	replace(215171,A)
FT		/*tag= m	FT		/*tag= ak
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170183,T)	FT	variation	replace(215293,T)
FT		/*tag= n	FT		/*tag= al
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170372,G)	FT	variation	replace(215294,A)
FT		/*tag= o	FT		/*tag= am
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170373,A)	FT	variation	replace(215329,T)
FT		/*tag= p	FT		/*tag= an
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(192358,T)	FT	variation	replace(215462,A)
FT		/*tag= q	FT		/*tag= ao
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196318,T)	FT	variation	replace(218885,C)
FT		/*tag= r	FT		/*tag= ap
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196436,T)	FT	variation	replace(218885,C)
FT		/*tag= s	FT		/*tag= aq
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196498,A)	FT	variation	replace(221189,G)
FT		/*tag= t	FT		/*tag= ar
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197649,T)	FT	variation	replace(223199,A)
FT		/*tag= u	FT		/*tag= as
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197655,T)	FT	variation	replace(223251,T)
FT		/*tag= v	FT		/*tag= at
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197719,A)	FT	variation	replace(225111,T)
FT		/*tag= w	FT		/*tag= au
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197746,T)	FT	variation	replace(225340,G)
FT		/*tag= x	FT		/*tag= av
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"

```
FT variation replace(225397,A)
FT /*tag= aw
FT /standard_name= "Single nucleotide polymorphism"
FT replace(229644,T)
FT /*tag= ax
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(229782,G)
FT /*tag= ay
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(237134,T)
FT /*tag= az
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(237321,T)
FT /*tag= ba
FT /standard_name= "Single nucleotide polymorphism"
XX
XX WO2003031594-A2.
XX
XX 17-APR-2003.
XX
XX 11-OCT-2002; 2002WO-US032700.
XX
XX 11-OCT-2001; 2001US-0328424P.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
XX
XX Keith T, Little RD, Van Berdeewegh P, Dupuis J, Del Mastro RG;
XX Allen K;
XX
XX WPI; 2003-381712/36.
XX
XX New isolated nucleic acid or alternate splice variant, useful for
XX diagnosing and treating a disintegrin and metalloprotease (ADAM) or
XX interactor gene-associated disorder, e.g. asthma, atopy, obesity or
XX inflammatory bowel disease.
XX
XX Claim 2; SEQ ID NO 9; 338pp; English.
XX
XX The invention relates to an isolated nucleic acid or alternate splice
XX
XX
XX Query Match 1.6%; Score 50; DB 11; Length 276820;
XX Best Local Similarity 100.0%; Pred. No. 1.2e-12;
XX Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 3073 AGATTGGCACTGCACTCCAGCCTGGGCAACAGAGAACTGTCTC 3122
XX 194263 AGATTGGCACTGCACTCCAGCCTGGGCAACAGAGAACTGTCTC 194312
XX
XX
XX RESULT 63
XX AAK77204/C
XX ID AAK77204 standard; DNA; 95 BP.
XX
XX AAK77204;
XX
XX 07-NOV-2001 (first entry)
XX
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:32016.
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytosolic; gene therapy; vaccine; metastasis; ds.
XX
XX Homo sapiens.
XX
XX WO200157182-A2.
XX
XX 09-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX
```

```
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205155P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0228928P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234937P.
PR 25-SEP-2000; 2000US-0234938P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
```

XX	02-OCT-2000;	2000US-0237040P.
PR	13-OCT-2000;	2000US-0239935P.
PR	13-OCT-2000;	2000US-0239937P.
PR	20-OCT-2000;	2000US-0240960P.
PR	20-OCT-2000;	2000US-0241221P.
PR	20-OCT-2000;	2000US-0241785P.
PR	20-OCT-2000;	2000US-0241786P.
PR	20-OCT-2000;	2000US-0241787P.
PR	20-OCT-2000;	2000US-0241808P.
PR	20-OCT-2000;	2000US-0241809P.
PR	20-OCT-2000;	2000US-0241826P.
PR	01-NOV-2000;	2000US-0244617P.
PR	08-NOV-2000;	2000US-0246474P.
PR	08-NOV-2000;	2000US-0246475P.
PR	08-NOV-2000;	2000US-0246476P.
PR	08-NOV-2000;	2000US-0246477P.
PR	08-NOV-2000;	2000US-0246478P.
PR	08-NOV-2000;	2000US-0246523P.
PR	08-NOV-2000;	2000US-0246524P.
PR	08-NOV-2000;	2000US-0246525P.
PR	08-NOV-2000;	2000US-0246526P.
PR	08-NOV-2000;	2000US-0246527P.
PR	08-NOV-2000;	2000US-0246528P.
PR	08-NOV-2000;	2000US-0246532P.
PR	08-NOV-2000;	2000US-0246539P.
PR	08-NOV-2000;	2000US-0246602P.
PR	08-NOV-2000;	2000US-0246610P.
PR	08-NOV-2000;	2000US-0246611P.
PR	17-NOV-2000;	2000US-0249207P.
PR	17-NOV-2000;	2000US-0249208P.
PR	17-NOV-2000;	2000US-0249209P.
PR	17-NOV-2000;	2000US-0249210P.
PR	17-NOV-2000;	2000US-0249211P.
PR	17-NOV-2000;	2000US-0249212P.
PR	17-NOV-2000;	2000US-0249213P.
PR	17-NOV-2000;	2000US-0249214P.
PR	17-NOV-2000;	2000US-0249215P.
PR	17-NOV-2000;	2000US-0249216P.
PR	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249244P.
PR	17-NOV-2000;	2000US-0249245P.
PR	17-NOV-2000;	2000US-0249246P.
PR	17-NOV-2000;	2000US-0249265P.
PR	17-NOV-2000;	2000US-0249297P.
PR	17-NOV-2000;	2000US-0249299P.
PR	17-NOV-2000;	2000US-0249300P.
PR	01-DEC-2000;	2000US-0250160P.
PR	01-DEC-2000;	2000US-0250391P.
PR	05-DEC-2000;	2000US-0251030P.
PR	05-DEC-2000;	2000US-0251988P.
PR	05-DEC-2000;	2000US-0256719P.
PR	06-DEC-2000;	2000US-0251479P.
PR	08-DEC-2000;	2000US-0251856P.
PR	08-DEC-2000;	2000US-0251868P.
PR	08-DEC-2000;	2000US-0251869P.
PR	08-DEC-2000;	2000US-0251989P.
PR	08-DEC-2000;	2000US-0251990P.
PR	11-DEC-2000;	2000US-0254097P.
PR	05-JAN-2001;	2001US-0259678P.
XX		
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX		
PI	Rosen CA, Barash SC, Ruben SM;	
XX		
DR	WPI; 2001-483426/52.	
XX		
PT	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,	
XX	useful for preventing, diagnosing and/or treating cancers and metastasis	
XX		
PS	Disclosure; SEQ ID NO 32016; 3071pp + Sequence Listing; English.	
CC	AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (1)	

CC	amino acid sequences given in AAM82170 to AAK61921. (I) have cytostatic
CC	activity, and can be used in gene therapy and vaccine production. (I)
CC	proteins and polynucleotides may be used in the prevention, diagnosis and
CC	treatment of diseases associated with inappropriate (I) expression. For
CC	example, they may be used to treat disorders associated with decreased
CC	expression by rectifying mutations or deletions in a patient's genome
CC	that affect the activity of (I) by expressing inactive proteins or to
CC	supplement the patients own production of (I). Additionally, (I)
CC	polynucleotides may be used to produce the secreted (I), by inserting the
CC	nucleic acids into a host cell and culturing the cell to express the
CC	protein. (I) proteins and polynucleotides may be used to prevent,
CC	diagnose and treat immune/haematopoietic-related diseases, especially
CC	cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC	to AAK87694 represent human immune/haematopoietic antigen genomic
CC	sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC	represent sequences used in the exemplification of the present invention
XX	
SQ	Sequence 95 BP; 22 A; 14 C; 16 G; 43 T; 0 U; 0 Other;
Query Match	1.6%; Score 49; DB 4; Length 95;
Best Local Similarity	100.0%; Pred. No. 4.7e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
OY	3073 AGATTGGCCACTGCACCTCCAGCCTGGGCAACAGACAAGACTGTGCT 3121
Dd	90 AGATTGGCCACTGCACCTCCAGCCTGGGCAACAGACAAGACTGTGCT 42
RESULT 64	
AAK77203/c	
ID	AAK77203 standard; DNA; 95 BP.
XX	
AC	AAK77203;
XX	
DT	07-NOV-2001 (first entry)
XX	
DE	Human immune/haematopoietic antigen genomic sequence SEQ ID NO:32015.
XX	
KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer; cytostatic; gene therapy; vaccine; metastasis; ds.
OS	Homo sapiens.
XX	
PN	WO200157182-A2.
PD	09-AUG-2001.
XX	
PF	17-JAN-2001; 2001WO-US001354.
XX	
PR	31-JAN-2000; 2000US-0179065P.
PR	04-FEB-2000; 2000US-0180628P.
PR	24-FEB-2000; 2000US-0184664P.
PR	02-MAR-2000; 2000US-0186350P.
PR	16-MAR-2000; 2000US-0189874P.
PR	17-MAR-2000; 2000US-0190076P.
PR	18-APR-2000; 2000US-0198123P.
PR	19-MAY-2000; 2000US-0205515P.
PR	07-JUN-2000; 2000US-0209467P.
PR	28-JUN-2000; 2000US-0214886P.
PR	30-JUL-2000; 2000US-0215135P.
PR	07-JUL-2000; 2000US-0216647P.
PR	07-JUL-2000; 2000US-0216880P.
PR	11-JUL-2000; 2000US-0217487P.
PR	11-JUL-2000; 2000US-0217496P.
PR	14-JUL-2000; 2000US-0218290P.
PR	26-JUL-2000; 2000US-0220963P.
PR	26-JUL-2000; 2000US-0220964P.
PR	14-AUG-2000; 2000US-0224518P.
PR	14-AUG-2000; 2000US-0224519P.
PR	14-AUG-2000; 2000US-0225213P.
PR	14-AUG-2000; 2000US-0225214P.
PR	14-AUG-2000; 2000US-0225266P.
PR	14-AUG-2000; 2000US-0225267P.

```

PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0227009P.
PR 01-SEP-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 25-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 26-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235464P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.

PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246529P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249267P.
PR 17-NOV-2000; 2000US-0249287P.
PR 17-NOV-2000; 2000US-0249289P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0251989P.
PR 06-DEC-2000; 2000US-0251719P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251858P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

XX (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Barash SC, Ruben SM;
XX MPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 32015; 3071pp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
XX amino acid sequences given in AAM82170 to AAM91921. (I) have cytotoxic
XX activity, and can be used in gene therapy and vaccine production. (I)
XX proteins and polynucleotides may be used in the prevention, diagnosis and
XX treatment of diseases associated with inappropriate (I) expression. For
XX example, they may be used to treat disorders associated with decreased
XX expression by rectifying mutations or deletions in a patient's genome
XX that affect the activity of (I) by expressing inactive proteins or to
XX supplement the patient's own production of (I). Additionally, (I)
XX polynucleotides may be used to produce the secreted (I), by inserting the
XX nucleic acids into a host cell and culturing the cell to express the
XX protein. (I) proteins and polynucleotides may be used to prevent,
XX diagnose and treat immune/haematopoietic-related diseases, especially
XX cancers and cancer metastases of haematopoietic-derived cells. AAK64703
XX to AAK87694 represent human immune/haematopoietic antigen genomic
XX sequences from the present invention. AAK54942 to AAK54950 and AAM82169
XX represent sequences used in the exemplification of the present invention
XX
SQ Sequence 95 BP; 22 A; 14 C; 16 G; 43 T; 0 U; 0 Other;
Query Match 1.6%; Score 49; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 4,7e-12;

```


Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy 3073	AGATTGTGCACCTGCATCTCCAGCTGGGCAAGACAGACACTCTCTCT 3121
Db 90	AGATTGTGCACCTGCATCTCCAGCTGGGCAAGACAGACACTCTCTCT 42
RESULT 65	
AAK86736/C	
ID AAK86736	standard; DNA; 272 BP.
XX	
AC AAK86736;	
XX	
DT 07-NOV-2001	(first entry)
XX	
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41548.	
XX	
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;	
XX	
XX	cytostatic; gene therapy; vaccine; metastasis; de.
OS Homo sapiens.	
PN WO200157182-A2.	
XX	
PD 09-AUG-2001.	
XX	
PF 17-JAN-2001; 2001WO-US001354.	
XX	
PR 31-JAN-2000; 2000US-0179065P.	
PR 04-FEB-2000; 2000US-0180628P.	
PR 24-FEB-2000; 2000US-0184664P.	
PR 02-MAR-2000; 2000US-0186350P.	
PR 16-MAR-2000; 2000US-0189874P.	
PR 17-MAR-2000; 2000US-0190076P.	
PR 18-APR-2000; 2000US-0198123P.	
PR 19-MAY-2000; 2000US-0205515P.	
PR 07-JUN-2000; 2000US-0209467P.	
PR 28-JUN-2000; 2000US-0214886P.	
PR 30-JUN-2000; 2000US-0215135P.	
PR 07-JUL-2000; 2000US-0216647P.	
PR 07-JUL-2000; 2000US-0216880P.	
PR 11-JUL-2000; 2000US-0217487P.	
PR 11-JUL-2000; 2000US-0217496P.	
PR 14-JUL-2000; 2000US-0218290P.	
PR 26-JUL-2000; 2000US-0220963P.	
PR 26-JUL-2000; 2000US-0220964P.	
PR 14-AUG-2000; 2000US-0224518P.	
PR 14-AUG-2000; 2000US-0224519P.	
PR 14-AUG-2000; 2000US-0225213P.	
PR 14-AUG-2000; 2000US-0225214P.	
PR 14-AUG-2000; 2000US-0225266P.	
PR 14-AUG-2000; 2000US-0225267P.	
PR 14-AUG-2000; 2000US-0225268P.	
PR 14-AUG-2000; 2000US-0225270P.	
PR 14-AUG-2000; 2000US-0225447P.	
PR 14-AUG-2000; 2000US-0225757P.	
PR 14-AUG-2000; 2000US-0225758P.	
PR 18-AUG-2000; 2000US-0226279P.	
PR 22-AUG-2000; 2000US-0226681P.	
PR 22-AUG-2000; 2000US-0226684P.	
PR 22-AUG-2000; 2000US-0227182P.	
PR 23-AUG-2000; 2000US-0227109P.	
PR 30-AUG-2000; 2000US-0228924P.	
PR 01-SEP-2000; 2000US-0229287P.	
PR 01-SEP-2000; 2000US-0229343P.	
PR 01-SEP-2000; 2000US-0229344P.	
PR 01-SEP-2000; 2000US-0229345P.	
PR 05-SEP-2000; 2000US-0229509P.	
PR 05-SEP-2000; 2000US-0229513P.	
PR 06-SEP-2000; 2000US-0230437P.	
PR 06-SEP-2000; 2000US-0230438P.	
PR 08-SEP-2000; 2000US-0231242P.	

PR 08-SEP-2000; 2000US-0231243P.	
PR 08-SEP-2000; 2000US-0231244P.	
PR 08-SEP-2000; 2000US-0231413P.	
PR 08-SEP-2000; 2000US-0231414P.	
PR 08-SEP-2000; 2000US-0231415P.	
PR 08-SEP-2000; 2000US-0232080P.	
PR 12-SEP-2000; 2000US-0231968P.	
PR 14-SEP-2000; 2000US-0232397P.	
PR 14-SEP-2000; 2000US-0232398P.	
PR 14-SEP-2000; 2000US-0232399P.	
PR 14-SEP-2000; 2000US-0232399P.	
PR 14-SEP-2000; 2000US-0232400P.	
PR 14-SEP-2000; 2000US-0232401P.	
PR 14-SEP-2000; 2000US-0233063P.	
PR 14-SEP-2000; 2000US-0233064P.	
PR 14-SEP-2000; 2000US-0233065P.	
PR 21-SEP-2000; 2000US-0234223P.	
PR 21-SEP-2000; 2000US-0234274P.	
PR 25-SEP-2000; 2000US-0234997P.	
PR 25-SEP-2000; 2000US-0234998P.	
PR 26-SEP-2000; 2000US-0235484P.	
PR 27-SEP-2000; 2000US-0235834P.	
PR 27-SEP-2000; 2000US-0235836P.	
PR 29-SEP-2000; 2000US-0236327P.	
PR 29-SEP-2000; 2000US-0236367P.	
PR 29-SEP-2000; 2000US-0236368P.	
PR 29-SEP-2000; 2000US-0236369P.	
PR 29-SEP-2000; 2000US-0236370P.	
PR 02-OCT-2000; 2000US-0236802P.	
PR 02-OCT-2000; 2000US-0237037P.	
PR 02-OCT-2000; 2000US-0237038P.	
PR 02-OCT-2000; 2000US-0237039P.	
PR 02-OCT-2000; 2000US-0237040P.	
PR 13-OCT-2000; 2000US-0239935P.	
PR 13-OCT-2000; 2000US-0239937P.	
PR 20-OCT-2000; 2000US-0240960P.	
PR 20-OCT-2000; 2000US-0241221P.	
PR 20-OCT-2000; 2000US-0241785P.	
PR 20-OCT-2000; 2000US-0241786P.	
PR 20-OCT-2000; 2000US-0241787P.	
PR 20-OCT-2000; 2000US-0241808P.	
PR 20-OCT-2000; 2000US-0241809P.	
PR 20-OCT-2000; 2000US-0241826P.	
PR 01-NOV-2000; 2000US-0244617P.	
PR 08-NOV-2000; 2000US-0246474P.	
PR 08-NOV-2000; 2000US-0246475P.	
PR 08-NOV-2000; 2000US-0246476P.	
PR 08-NOV-2000; 2000US-0246477P.	
PR 08-NOV-2000; 2000US-0246523P.	
PR 08-NOV-2000; 2000US-0246524P.	
PR 08-NOV-2000; 2000US-0246525P.	
PR 08-NOV-2000; 2000US-0246526P.	
PR 08-NOV-2000; 2000US-0246527P.	
PR 08-NOV-2000; 2000US-0246528P.	
PR 08-NOV-2000; 2000US-0246532P.	
PR 08-NOV-2000; 2000US-0246609P.	
PR 08-NOV-2000; 2000US-0246610P.	
PR 08-NOV-2000; 2000US-0246613P.	
PR 17-NOV-2000; 2000US-0249207P.	
PR 17-NOV-2000; 2000US-0249208P.	
PR 17-NOV-2000; 2000US-0249209P.	
PR 17-NOV-2000; 2000US-0249210P.	
PR 17-NOV-2000; 2000US-0249211P.	
PR 17-NOV-2000; 2000US-0249212P.	
PR 17-NOV-2000; 2000US-0249213P.	
PR 17-NOV-2000; 2000US-0249214P.	
PR 17-NOV-2000; 2000US-0249215P.	
PR 17-NOV-2000; 2000US-0249216P.	
PR 17-NOV-2000; 2000US-0249217P.	
PR 17-NOV-2000; 2000US-0249218P.	
PR 17-NOV-2000; 2000US-0249244P.	
PR 17-NOV-2000; 2000US-0249245P.	

PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 06-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 41548; 3071bp + Sequence Listing; English.
XX
XX AA54951 to AA64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AA62170 to AA61921. (I) have cytotoxic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AA64703
CC to AA67694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AA54942 to AA54950 and AA62169
CC represent sequences used in the exemplification of the present invention
XX
XX SQ Sequence 272 BP; 45 A; 77 C; 67 G; 83 T; 0 U; 0 Other;
Query Match 1.6%; Score 49; DB 4; Length 272;
Best Local Similarity 100.0%; Pred. No. 4.5e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCT 3121
Db 64 AGATTGGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCT 16
RESULT 66
AA6737/c
XX ID AA6737 standard; DNA; 281 BP.
XX
XX AA6737;
XX AC
XX DT 07-NOV-2001 (first entry)
XX
XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41549.
XX
XX KM Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytosstatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.

XX
PN WO200157182-A2.
XX
XX 09-AUG-2001.
PD
XX
PF 17-JAN-2001; 2001MO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 26-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225265P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.

PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX
PA (HUMA -) HUMAN GENOME SCI INC.
XX

PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
DR
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
PR
XX
PS Disclosure; SEQ ID NO 41549; 3071bp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK67694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 281 BP; 48 A; 79 C; 70 G; 84 T; 0 U; 0 Other;
XX
Query Match 1.6%; Score 49; DB 4; Length 281;
Best Local Similarity 100.0%; Pred. No. 4,5e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 3073 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTGCT 3121
Db 63 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTGCT 15
RESULT 67
AAK66626
ID AAK66626 standard; DNA; 21477 BP.
XX
AC AAK66626;
XX
DT 06-NOV-2001 (first entry)
XX
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:21438.
DE
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KM cytosolic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
XX WO200157182-A2.
PN
XX
PD 09-AUG-2001.
XX
PP 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209457P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 11-JUL-2000; 2000US-0216880P.
PR

PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0230963P.
PR 26-JUL-2000; 2000US-0230964P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 23-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 25-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241222P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.

PR 01-NOV-2000; 2000US-024617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
PI WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX
XX Disclosure; SEQ ID NO 21438; 3071pp + Sequence listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,

CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK8694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
CC
SQ Sequence 21477 BP; 5311 A; 4999 C; 5256 G; 5911 T; 0 U; 0 Other;
Query Match 1.6%; Score 49; DB 4; Length 21477;
Best Local Similarity 100.0%; Pred. No. 3.9e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTCACCTGCACTCCAGCTGGGCAACAGACAGACTCTGTCT 3121
DB 13201 AGATTGTCACCTGCACTCCAGCTGGGCAACAGACAGACTCTGTCT 13249
RESULT 68
AD213418/C
ID AD213418 standard; DNA; 85920 BP.
XX
AC AD213418;
XX
DT 16-JUN-2005 (first entry)
XX
DE Human cancer-associated genomic DNA #80.
XX
KW Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;
KW cytostatic; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2005031001-A2.
XX
PD 07-APR-2005.
XX
PF 23-SEP-2004; 2004WO-US031617.
XX
PR 23-SEP-2003; 2003US-00669920.
XX
PA (CHIR) CHIRON CORP.
XX
PI Morris DW, Malandro MS;
XX
DR WPI; 2005-273395/28.
XX
PT Nucleic acid array useful for detecting cancer associated nucleic acid,
XX comprises two or more nucleic acid probes.
XX
PS Disclosure; SEQ ID NO 938; 198pp; English.
XX
CC The invention relates to a nucleic acid array for detecting a cancer
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.
CC The invention also relates to a peptide array comprising two or more
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound
CC that binds to a polypeptide, an isolated antibody or its fragment which
CC binds to a polypeptide, which is prepared by immunizing a host animal
CC with a composition comprising the polypeptide or its antigen binding
CC fragment and collecting cells from the host expressing antibodies against
CC the antigen or its antigen binding fragment, a composition comprising the
CC antibody and a carrier, a method of screening for anticancer activity, a
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a
CC method of treating cancer and a method of inhibiting expression of a CA
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA
CC nucleic acids. The antibody is useful for detecting the presence or
CC absence of cancer cells in an individual which involves contacting cells
CC from the individual with the antibody and detecting a complex of a CA
CC protein from the cancer cells and the antibody, where the detection of
CC the complex correlates with the presence of cancer cells in the
CC individual. The composition is useful for inhibiting growth of cancer
CC cells in an individual or for delivering a therapeutic agent to cancer
CC cells in an individual. The invention is also useful for diagnosing
CC cancer, for treating cancer and for inhibiting expression of a CA gene in

CC a cell. This sequence represents human cancer-associated genomic DNA of
CC the invention.
CC
SQ Sequence 85920 BP; 23268 A; 18962 C; 19343 G; 24347 T; 0 U; 0 Other;
Query Match 1.6%; Score 49; DB 14; Length 85920;
Best Local Similarity 100.0%; Pred. No. 3.7e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTCACCTGCACTCCAGCTGGGCAACAGACAGACTCTGTCT 3121
DB 45176 AGATTGTCACCTGCACTCCAGCTGGGCAACAGACAGACTCTGTCT 45128
RESULT 69
ADP51132/C
ID ADP51132 standard; DNA; 243428 BP.
XX
AC ADP51132;
XX
DT 12-FEB-2004 (first entry)
XX
DE Human P-Rex1 genomic DNA sequence.
XX
KW human; P-Rex1; Rac; guanine-nucleotide exchange factor; GEF; GTPase;
KW inflammation; metastasis; septic shock; neurodegeneration;
KW atherosclerosis; antiinflammatory; cytostatic; antibacterial;
KW immunosuppressive; neuroprotective; antiarteriosclerotic; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2003080664-A1.
XX
PD 02-OCT-2003.
XX
PF 21-MAR-2003; 2003WO-GB001238.
XX
PR 21-MAR-2002; 2002GB-00006684.
XX
PA (BABR-) BABRAHAM INST.
XX
PI Stephens L, Hawkins PT;
XX
DR WPI; 2004-011515/01.
XX
DR P-ESDB; ADP51119.
XX
PT New isolated P-Rex1 protein or its derivative useful for discovering
PT drugs capable of reducing or inhibiting inflammation, metastasis, septic
PT shock, neurodegeneration or atherosclerosis, or for identifying P-Rex1
PT modulators.
XX
PS Disclosure; SEQ ID NO 14; 198pp; English.
XX
CC This invention relates to a novel protein useful as an anti-inflammatory
CC target. Specifically, it refers to the guanine-nucleotide exchange factor
CC (GEF) named P-Rex1, which has also been identified as a
CC phosphatidylinositol(3,4,5)P3-sensitive activator of Rac (a monomeric
CC GTPase). Accordingly, P-Rex1 can be described as having Rac-GEF activity
CC and is adapted to function downstream of activation of heterotrimeric G
CC proteins in neutrophils. The present invention describes this protein as
CC a useful target for drug discovery or for discovery of a drug capable of
CC reducing or inhibiting inflammation, metastasis, septic shock,
CC neurodegeneration or atherosclerosis. As such, P-Rex1 can have various
CC activities including antiinflammatory, cytostatic, antibacterial,
CC immunosuppressive, neuroprotective and antiarteriosclerotic. Furthermore,
CC the protein or its mutant, the nucleic acid or appropriate antibody may
CC be used in a screening assay to identify a modulator of P-Rex1 binding
CC activity or expression. This polynucleotide is the human P-Rex1 genomic
CC DNA sequence of the invention.
XX
SQ Sequence 243428 BP; 65880 A; 63219 C; 59010 G; 55319 T; 0 U; 0 Other;
Query Match 1.6%; Score 49; DB 12; Length 243428;

Best Local Similarity 100.0%; Pred. No.3.6e-12;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 3074 GATTGTGCACCTGCACCTGCACCTGGCAACAGACAGACTGTCTTC 3122
Db 235339 GATTGTGCACCTGCACCTGCACCTGGCAACAGACAGACTGTCTTC 235291

RESULT 70
ID AAK82458 standard; DNA; 4316 BP.
AC AAK82458;
DT 07-NOV-2001 (first entry)
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:37270.
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytosolic; gene therapy; vaccine; metastasis; ds.
XX Homo sapiens.
OS WO200157182-A2.
PN 09-AUG-2001.
PD 17-JAN-2001; 2001WO-US001354.
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184644P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.

PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234937P.
PR 25-SEP-2000; 2000US-0234938P.
PR 26-SEP-2000; 2000US-0234984P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236377P.
PR 29-SEP-2000; 2000US-0236378P.
PR 29-SEP-2000; 2000US-0236379P.
PR 29-SEP-2000; 2000US-0236380P.
PR 29-SEP-2000; 2000US-0236381P.
PR 29-SEP-2000; 2000US-0236382P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249219P.

PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 01-DEC-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251899P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 37270; 3071pp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 4316 BP; 1270 A; 791 C; 832 G; 1423 T; 0 U; 0 Other;

Query Match 1.5%; Score 48; DB 4; Length 4316;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3075 ATTGTGCGCCTGACCTCCAGCCTGGGCAACAGCAAGCTGTCTC 3122
DB 372 ATTGTGCGCCTGACCTCCAGCCTGGGCAACAGCAAGCTGTCTC 325

RESULT 71
AAK82461/c
ID AAK82461 standard; DNA; 4316 BP.
XX
XX AAK82461;
AC
XX
XX
DT 07-NOV-2001 (first entry)
XX
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:37273.
DE Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX

OS Homo sapiens.
XX
XX WO200157182-A2.
XX
XX
PD 09-AUG-2001.
XX
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226799P.
PR 22-AUG-2000; 2000US-0226881P.
PR 22-AUG-2000; 2000US-0226882P.
PR 22-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0227093P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0231415P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0231977P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.

PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239353P.
PR 13-OCT-2000; 2000US-0239357P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241222P.
PR 20-OCT-2000; 2000US-0241223P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246533P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249247P.
PR 17-NOV-2000; 2000US-0249257P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0235678P.
PR XX
PR (HUMA-) HUMAN GENOME SCI INC.

XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-483426/52.
XX
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Disclosure; SEQ ID NO 37273; 3071bp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 4316 BP; 1270 A; 791 C; 832 G; 1423 T; 0 U; 0 Other;
Query Match 1.5%; Score 48; DB 4; Length 4316;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3075 ATTGTGCACCTGCACCTGCACCTGCGCAACAGAGCAAGACTCTGTC 3122
Db 372 ATTGTGCACCTGCACCTGCACCTGCGCAACAGAGCAAGACTCTGTC 325
RESULT 72
AAK82456/C
ID AAK82456 standard; DNA; 4317 BP.
XX
AC AAK82456;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/hematopoietic antigen genomic sequence SEQ ID NO:37268.
XX
KW Human; immune; haematopoietic; immune/hematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; de.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
PD
FD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.

CC protein. (1) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AA64703
CC to AA687694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AA654942 to AA654950 and AA682169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 4317 BP, 1270 A; 791 C; 831 G; 1425 T; 0 U; 0 Other;

Query Match 1.5%; Score 48; DB 4; Length 4317;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3075 ATTGTGGCACTGCACTCCAGCTTGGGCAACAGACAGACTGTGTC 3122
Db 372 ATTGTGGCACTGCACTCCAGCTTGGGCAACAGACAGACTGTGTC 325
|||||

RESULT 73
ADA02666
XX ADA02666 standard; DNA; 52242 BP.
XX
AC ADA02666;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human MDM2 carcinoma associated gene, SEQ ID NO:1184.
XX
KW Human; carcinoma associated; oncogene; carcinoma; cancer; breast;
KW prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN W02003057146-A2.
XX
PD 17-JUL-2003.
XX
PF 26-DEC-2002; 2002WO-US041414.
XX
PR 26-DEC-2001; 2001US-00035832.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW;
XX
DR WPI; 2003-587068/55.
XX
PT New recombinant nucleic acid encoding carcinoma associated protein,
PT useful for preparing compositions for treating carcinomas.
XX
PS Claim 1; SEQ ID NO 1184; 245bp; English.
XX
CC The invention relates to recombinant carcinoma associated (CA) nucleic
CC acid sequences from mouse and human (ADA01482-ADA03094), and to
CC recombinant carcinoma associated proteins (CAP) encoded by them. The
CC invention also encompasses expression vectors and host cells comprising a
CC CA nucleic acid, a polypeptide (especially an antibody) that specifically
CC binds to the protein, and a biochip comprising CA nucleic acid or
CC fragments thereof. The sequences of the invention were identified using
CC oncogenic retroviruses, which insert into the genome of the host organism
CC at random. Many of these do not carry transduced host oncogenes or
CC pathogenic trans-acting viral genes, meaning that cancer incidence is a
CC direct consequence of the effects of proviral integration into host
CC protooncogenes. The CA nucleic acid sequences can be used to diagnose
CC carcinoma (especially breast cancer, prostate cancer, lymphoma or
CC leukaemia) or a propensity to carcinoma by determination of the sequence
CC of a CA gene, or by determination of CA gene expression in particular
CC tissues. CA nucleic acids, proteins and antibodies are also useful as
CC therapeutic agents and in screening and evaluating drug candidates. The
CC present sequence represents a specifically claimed human CA nucleic acid
CC sequence of the invention. Note: The complete sequence data for this
CC patent did not form part of the printed specification, but was obtained

CC in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 52242 BP, 14384 A; 10354 C; 10997 G; 16487 T; 0 U; 20 Other;

Query Match 1.5%; Score 48; DB 9; Length 52242;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2895 GGTGGATCACCTGAGGCGCAGAGTTGAGACCAAGCTTGGCCAACTAG 2942
Db 5520 GGTGGATCACCTGAGGCGCAGAGTTGAGACCAAGCTTGGCCAACTAG 5567
|||||

RESULT 74
ADB72404
XX ADB72404 standard; DNA; 52242 BP.
XX
AC ADB72404;
XX
DT 04-DEC-2003 (first entry)
XX
DE Human MDM2 gene.
XX
KW human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;
KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.
XX
OS Homo sapiens.
XX
PN W02003008583-A2.
XX
PD 30-JAN-2003.
XX
PF 26-DEC-2001; 2001WO-US051291.
XX
PR 02-MAR-2001; 2001US-00798586.
PR 23-OCT-2001; 2001US-00004113.
PR 08-NOV-2001; 2001US-00052482.
PR 30-NOV-2001; 2001US-00997722.
PR 20-DEC-2001; 2001US-00034650.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW, Engelhard EK;
XX
DR WPI; 2003-239337/23.
XX
PT New recombinant nucleic acid, useful for treating carcinomas, lymphomas,
PT cancers, neoplasm, adenocarcinoma, or sarcomas.
XX
PS Claim 1; SEQ ID NO 232; 2304bp; English.
XX
CC The invention relates to a novel recombinant nucleic acid comprising a
CC nucleotide sequence selected from any of the 660 sequences fully defined
CC in the specification. A polynucleotide of the invention has cytostatic
CC activity, and may have a use in gene therapy, or in a vaccine. The
CC recombinant nucleic acids and polypeptides are useful for treating
CC carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and
CC sarcomas. The present sequence represents a human gene of the invention.
XX
SQ Sequence 52242 BP, 14384 A; 10354 C; 10997 G; 16487 T; 0 U; 20 Other;

Query Match 1.5%; Score 48; DB 10; Length 52242;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2895 GGTGGATCACCTGAGGCGCAGAGTTGAGACCAAGCTTGGCCAACTAG 2942
Db 5520 GGTGGATCACCTGAGGCGCAGAGTTGAGACCAAGCTTGGCCAACTAG 5567
|||||

RESULT 75
ADB95914

ID ADB95914 standard; DNA; 52242 BP.
XX
AC ADB95914;
XX
DT 12-FEB-2004 (first entry)
XX
DE Human MDM2 gene genomic DNA sequence.
XX
KM cancer diagnosis; cancer treatment; carcinoma; cytostatic; gene therapy;
KM lymphoma; breast cancer; prostate cancer; leukemia; ds; human; MDM2.
XX
OS Homo sapiens.
XX
PN WO2003039484-A2.
XX
PD 15-MAY-2003.
XX
PF 08-NOV-2002; 2002WO-US036071.
XX
PR 08-NOV-2001; 2001US-00052482.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW, Engelhard EK;
XX
DR WPI; 2003-441462/41.
XX
PS New carcinoma associated nucleic acids and proteins, useful for screening
PT drug candidates, or for diagnosing and treating carcinomas, e.g.
PT lymphoma, breast cancer, prostate cancer or leukemia.
XX
PS Claim 1; SEQ ID NO 172; 793pp; English.
XX
CC This invention relates to novel recombinant nucleic acids for use in
CC diagnosis and treatment of cancer, especially carcinomas, as well as the
CC use of compositions in screening methods. The compositions of the
CC invention may have cytostatic activity whilst the disclosed sequences may
CC be useful for gene therapy. The carcinoma associated nucleic acids and
CC proteins are useful for diagnosing and treating carcinomas, for example
CC lymphoma, breast cancer, prostate cancer or leukemia, or for screening
CC drug candidates or bioactive agents capable of binding to, or modulating
CC the activity of, a carcinoma associated protein. The present sequence is
CC the genomic DNA sequence of the human MDM2 gene which is a carcinoma
CC associated gene of the invention.
XX
SQ Sequence 52242 BP; 14384 A; 10353 C; 10998 G; 16487 T; 0 U; 20 Other;

Query Match 1.5%; Score 48; DB 10; Length 52242;
Beet Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAACATAG 2942
DB 5520 GGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAACATAG 5567

RESULT 76
AEA61175/C
ID AEA61175 standard; DNA; 53779 BP.
XX
AC AEA61175;
XX
DT 25-AUG-2005 (first entry)
XX
DE Human ENTPD5 gene genomic sequence SEQ ID NO:85.
XX
KM DNA methylation; biomarker; cancer; gene; ds; ENTPD5.
XX
OS Homo sapiens.
XX
PN US2005130172-A1.
XX
PD 16-JUN-2005.

XX
PF 27-JAN-2004; 2004US-00765790.
XX
PR 16-DEC-2003; 2003US-00737082.
XX
PA (FARB) BAYER CORP.
XX
PI Beard C, Burgess C, Gammon A, Harvey J, Lechner JF, Li Z;
XX
DR WPI; 2005-456991/46.
DR GENBANK; NM_001249.
XX
PT Identifying nucleic acid sequences as biomarker for disease, by
PT identifying nucleic acid sequences comprising methylated CpG site and
PT down-regulated in diseased cells and comparing its expression level with
PT demethylated nucleic acid.
XX
PS Claim 11; SEQ ID NO 85; 27pp; English.
XX
CC The invention relates to a method (M1) for identifying one or more
CC nucleic acid sequences useful as a biomarker for a disease to be
CC detected. (M1) involves identifying nucleic acid sequences comprising
CC methylated CpG site in promoter-first exon region and that are down-
CC regulated in diseased cells, comparing expression level of nucleic acid
CC sequences with that of demethylated nucleic acid sequences and
CC identifying nucleic acid sequences exhibiting increase in expression
CC after demethylation. Also described: (1) detecting (M2) the presence or
CC stage of a disease in a subject, which involves determining the degree of
CC methylation of one or more CpG sites on nucleic acid sequences in a
CC biological sample obtained from the subject, and determining the presence
CC of, predilection to, or stage of the disease in the subject based on
CC the degree of methylation; (2) monitoring the onset, progression, or
CC regression of a disease in a subject; (3) determining the efficacy of a
CC test compound for inhibiting a disease in a subject; and (4) a kit (1)
CC useful for diagnosis, prognosis, staging, monitoring, and therapeutic
CC treatment of a disease. (M1) is useful for identifying one or more
CC nucleic acid sequences useful as a biomarker for a disease to be
CC detected, where the nucleic acid sequences are useful for detecting, the
CC presence or stage of a disease such as cancer e.g. colorectal cancer in a
CC subject. The present sequence represents a specifically claimed human
CC genomic sequence for use in the method of the invention. Note - The
CC sequence data for this patent is not represented in the printed
CC specification but was obtained in electronic format from the USPTO web
CC site.
XX
SQ Sequence 53779 BP; 14286 A; 11767 C; 12248 G; 15478 T; 0 U; 0 Other;

Query Match 1.5%; Score 48; DB 14; Length 53779;
Beet Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2889 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCA 2936
DB 2311 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCA 2264

RESULT 77
ACN44374
ID ACN44374 standard; DNA; 181684 BP.
XX
AC ACN44374;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human genomic sequence hCG16551.
XX
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003073826-A2.
XX
PD 12-SEP-2003.

XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SNGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX WPI; 2003-328604/31.
XX
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
PT comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 790; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biocchip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US200218286A1, for which no sequence data was published
CC
XX
SQ Sequence 181684 BP; 55185 A; 34753 C; 35001 G; 55847 T; 0 U; 898 Other;
Query Match 1.5%; Score 48; DB 11; Length 181684;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGTGCCACTGCCTCCAGCTGGGCAACAGAGAAGACTCTGTC 3120
DB 155726 AGATTGTGCCACTGCCTCCAGCTGGGCAACAGAGAAGACTCTGTC 155773
RESULT 78
ABV16331
ID ABV16331 standard; cDNA; 440 BP.
XX
XX AC ABV16331;
XX
XX 13-SEP-2002 (first entry)
XX
XX Human prostate expression marker cDNA 16322.
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
XX pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
XX
XX WO200160860-A2.
XX
XX 23-AUG-2001.
XX
XX 20-FEB-2001; 2001WO-US005171.
XX
XX 17-FEB-2000; 2000US-0183319P.
XX 16-MAR-2000; 2000US-0189862P.
XX 25-MAY-2000; 2000US-0207454P.
XX 09-JUN-2000; 2000US-0211314P.
XX 18-JUL-2000; 2000US-0219007P.
XX 13-DEC-2000; 2000US-0255281P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Schlegel R, Endege WO, Monahan JE;
XX
XX

XX WPI; 2001-662795/76.
XX
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer.
XX
XX Claim 1; Page 2728; 11750pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for: (a) assessing whether
CC a patient is afflicted with prostate cancer; (b) monitoring the
CC progression of prostate cancer in a patient; (c) assessing the efficacy
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
CC determining whether prostate cancer has metastasized in a patient; (h)
CC assessing the aggressiveness or indolence of prostate cancer in a patient
CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker
XX
SQ Sequence 440 BP; 136 A; 96 C; 112 G; 96 T; 0 U; 0 Other;
Query Match 1.5%; Score 47; DB 5; Length 440;
Best Local Similarity 100.0%; Pred. No. 3.8e-11;
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3070 GCAAGATTGTGCCACTGCCTCCAGCTGGGCAACAGAGAAGACTC 3116
DB 378 GCAAGATTGTGCCACTGCCTCCAGCTGGGCAACAGAGAAGACTC 424
RESULT 79
ABV46129
ID ABV46129 standard; cDNA; 516 BP.
XX
XX AC ABV46129;
XX
XX 16-SEP-2002 (first entry)
XX
XX Human prostate expression marker cDNA 46120.
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
XX pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
XX
XX WO200160860-A2.
XX
XX 23-AUG-2001.
XX
XX 20-FEB-2001; 2001WO-US005171.
XX
XX 17-FEB-2000; 2000US-0183319P.
XX 16-MAR-2000; 2000US-0189862P.
XX 25-MAY-2000; 2000US-0207454P.
XX 09-JUN-2000; 2000US-0211314P.
XX 18-JUL-2000; 2000US-0219007P.
XX 13-DEC-2000; 2000US-0255281P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Schlegel R, Endege WO, Monahan JE;
XX
XX WPI; 2001-662795/76.
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer.
XX
XX Claim 1; Page 9110; 11750pp; English.
XX
XX

CC The invention relates to an isolated nucleic acid molecule (1) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (1) is useful for: (a) assessing whether
CC a patient is afflicted with prostate cancer; (b) monitoring the
CC progression of prostate cancer in a patient; (c) assessing the efficacy
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
CC determining whether prostate cancer has metastasized in a patient; (h)
CC assessing the aggressiveness or indolence of prostate cancer in a patient
CC ; (1) is also useful as a pharmacodynamic or pharmacogenomic marker
XQ Sequence 516 BP; 161 A; 118 C; 135 G; 100 T; 0 U; 2 Other;

Query Match	1.5%	Score 47	DB 5	Length 516
Best Local Similarity	100.0%	Pred. No. 3.8e-11		
Matches 47	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	3070	GCAAGATTGTG	CCA	CTG	CACTC	CAG	CCTG	GGCA	CA	GAGCA	AGACTC	3116
Db	418	GCAAGATTGTG	CCA	CTG	CACTC	CAG	CCTG	GGCA	CA	GAGCA	AGACTC	464

RESULT 80
ADL13941
ID ADL13941 standard; DNA; 125515 BP.

AC	ADL13941;
XX	
DT	06-MAY-2004 (first entry)

DE Osteoarthritis-associated polymorphic nucleotide #473.

KM ds; gene; osteopathic; antiinflammatory; antarthritic; gene therapy;
KM joint space narrowing; osteophyte development; joint pain;
KM osteoarthritis; SNP; single nucleotide polymorphism.

Homo sapiens.

PN WO2003054166-A2.

03-JUL-2003
PD

PF 19-DEC-2002; 2002WO-US041225.

PR 20-DEC-2001; 2001US-0342603P.

PA (INCY-) INCYTE GENOMICS INC.

PI Jones KA, Schafer A;

DR WPI; 2003-559141/52.

Determining susceptibility of an individual to joint space narrowing, osteophyte development and/or joint pain comprises identifying whether the individual has at least one polymorphism in a polynucleotide encoding a protein.

PS Disclosure; SEQ ID NO 473; 297pp; English.

CC The invention relates to a method of determining susceptibility of an
CC individual to joint space narrowing and/or osteophyte development and/or
CC joint pain comprising identifying whether the individual has at least one
CC polymorphism in a polynucleotide encoding at least one of the protein
CC listed in the specification. The methods, composition and agent are
CC useful for modulating the susceptibility of an individual to joint space
CC narrowing and/or osteophyte development and/or joint pain that is
CC associated with a disease, preferably osteoarthritis. The cell line and
CC the non-human animal are useful for screening for an agent for diagnosing
CC an individual having susceptibility to joint space narrowing and/or
CC osteophyte development and/or joint pain. This sequence corresponds to
CC the polynucleotide encoding a protein listed in the specification. (Note:

The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from WIPO at http://wipo.int/pub/published_pat_sequences.

SQ Sequence 125515 BP; 33180 A; 28822 C; 28744 G; 34769 T; 0 U; 0 Other;

Query Match	1.5%	Score 47	DB 10	Length 125515
Best Local Similarly	100.0%	Pred. No. 3.2e-11		
Matches 47	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	3076	TTGTGCCACTGCACCTCAGCCTGGGCAACAGAGCAAGACTCTGTCTC	3122
Db	77293	TTGTGCCACTGCACCTCAGCCTGGGCAACAGAGCAAGACTCTGTCTC	77339

RESULT 81
ADW06065/c
ID ADW06065 standard; DNA; 380 BP.

AC ADW06065;

DT 24-MAR-2005 (first entry)

DE Human gene trapped sequence (GTS) - SEQ ID 282.

KM gene expression, forensic; aging; cancer; autoimmune disease;
KM systemic lupus erythematosus; scleroderma; crohn's disease;
KM multiple sclerosis; inflammatory bowel disease; immune disorder;
KM schizophrenia; psychosis; alopecia; inflammatory disorder;
KM ataxia telangiectasia; diabetes; skin disorder; osteoarthritis;
KM rheumatoid arthritis; blood pressure; atherosclerosis;
KM cardiovascular disease; pulmonary disease; Alzheimer's disease;
KM Parkinson's disease; osteoporosis; asthma; developmental disorder;
KM infertility; infection; cytostatic; immunosuppressive; dermatologic;
KM antiinflammatory; neuroprotective; gastrointestinal-gen.;
KM neuroleptic endocrine-gen.; antidiabetic; antiarthritic; osteopathic;
KM antineoplastic; antilarteriosclerotic; cardiovascular-gen.; nootropic;
KM antiparkinsonian; antiasthmatic; antifertility; gene trapped sequence
KM GTS; da.

Homo sapiens.

PN US2005003444-A1.

PD 06-JAN-2005.

06-AUG-2004; 2004US-00914037.

PR 30-OCT-1998; 98US-0106442P.

XX

XX

XX

XX

PT New human gene trapped sequences, useful for diagnosing and treating
PT disorders affecting development and cell differentiation, e.g. aging
PT cancer, schizophrenia, alopecia, diabetes, rheumatoid arthritis, or
PT infertility.

PS Claim 3; SEQ ID NO 282; 35pp; English.

The invention comprises novel human gene tripped sequences (GTSs) which are useful in gene discovery and as markers for gene expression analysis, forensic analysis, and determining the genetic basis of human disease. The human GTSs of the invention are useful for diagnosing and treating disorders affecting development and cell differentiation, such as: aging, cancer, autoimmune disease, lupus, scleroderma, Crohn's disease, multiple sclerosis, inflammatory bowel disease, immune disorders, schizophrenia, albinism, alopecia, glandular disorders, osteoarthritis, ataxia, psychosis, alopecia, skin disorders, inflammatory disorders, rheumatoid arthritis, diabetes, skin disorders, osteoarthritis, rheumatoid

CC arthritis, high blood pressure, atherosclerosis, cardiovascular disease,
CC pulmonary disease, degenerative disease of neural or skeletal systems,
CC Alzheimer's disease, Parkinson's disease, osteoporosis, asthma,
CC developmental disorder, genetic birth defects, infertility, epithelial
CC ulcerations, and infections. The present nucleic acid represents a human
CC cDNA of the invention. NOTE: The present sequence is not shown in the
CC specification, but has been retrieved from the USPTO web site.
XX
SQ Sequence 380 BP; 93 A; 103 C; 78 G; 105 T; 0 U; 1 Other;
Query Match 1.5%; Score 46; DB 14; Length 380;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3071 CAAGATTGTGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTC 3116
Db 49 CAAGATTGTGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTC 4
RESULT 82
ABL83398/c
ID ABL83398 standard; cDNA; 405 BP.
XX
AC ABL83398;
XX
XX 17-MAY-2002 (first entry)
XX
XX Human ovarian cancer related cDNA clone SEQ ID NO:6376.
XX
XX Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.
XX
OS Homo sapiens.
XX
XX WO200192581-A2.
XX
XX 06-DEC-2001.
XX
XX 29-MAY-2001; 2001WO-US017756.
XX
XX 26-MAY-2000; 2000US-0207484P.
XX
XX (CORI-) CORIXA CORP.
XX
XX Algate PA, Harlocker SL, Jones R;
XX
XX WPI; 2002-122075/16.
XX
XX Composition for therapy and diagnosis of ovarian cancer comprising
XX polypeptide of a ovarian tumor polypeptide, polynucleotide encoding
XX polypeptide, antibody specific to polypeptide or T cell expressing
XX polypeptide.
XX
XX Claim 1; SEQ ID NO 6376; 489pp; English.
XX
XX The present invention describes a composition (I) comprising: carriers
XX and immunostimulants; and a polypeptide (II) of a ovarian tumor
XX polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1)
XX from the 10912 nucleotide sequences as given in ABL77023 to ABL87934,
XX (III) encoding (II) having a sequence (S2), a T cell population of (II),
XX or antigen presenting cells that express (II). (I) has cytostatic
XX activity. An oligonucleotide (IV) that hybridizes to (S1) can be used for
XX detecting ovarian cancer in a patient's biological sample preferably
XX serum or ovarian tissue. The method comprises contacting a biological
XX sample from a patient with (IV), detecting the amount of polynucleotide
XX hybridizing to (IV) and comparing the amount to a predetermined cutoff
XX value and thereby detecting ovarian cancer in the patient, where the
XX amount of polynucleotide hybridizing to (IV) is detected preferably by
XX polymerase chain reaction (PCR). (I) comprising (III) and/or (II) is
XX useful for stimulating and/or expanding T cells specific for an ovarian
XX tumor protein comprising contacting T cells with (III) or (II). (III) is
XX useful in design and preparation of ribozyme molecules for inhibiting
XX expression of the tumor polypeptides and proteins in tumor cells; and
XX to isolate a full length gene from a suitable library e.g., a tumour cDNA

CC library using well known techniques
XX
SQ Sequence 405 BP; 84 A; 114 C; 95 G; 112 T; 0 U; 0 Other;
XX
Query Match 1.5%; Score 46; DB 6; Length 405;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3071 CAAGATTGTGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTC 3116
Db 106 CAAGATTGTGCACTGCACTCCAGCTCGGCAACAGAGCAAGACTC 61
RESULT 83
ADL43370/c
ID ADL43370 standard; DNA; 458 BP.
XX
XX ADL43370;
XX
XX 20-MAY-2004 (first entry)
XX
XX Human ovarian cancer DNA marker #17260.
XX
XX Human; ovarian cancer; de; tumour; cytostatic; DNA marker.
XX
XX Homo sapiens.
XX
XX WO200170979-A2.
XX
XX 27-SEP-2001.
XX
XX 21-MAR-2001; 2001WO-US009126.
XX
XX 21-MAR-2000; 2000US-0191031P.
XX
XX 25-MAY-2000; 2000US-0207124P.
XX
XX 15-JUN-2000; 2000US-0211940P.
XX
XX 07-JUL-2000; 2000US-0216820P.
XX
XX 25-JUL-2000; 2000US-0220661P.
XX
XX 21-DEC-2000; 2000US-0257672P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Lee J, Little J;
XX
XX WPI; 2001-611502/70.
XX
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
XX cancer cells as compared to their normal non-cancerous ovarian cells are
XX used to characterize stage, grade, histological type of ovarian cancer.
XX
XX Disclosure; SEQ ID NO 17260; 106pp; English.
XX
XX The invention relates to nucleic acid markers which are overexpressed in
XX ovarian cancer cells as compared to their expression in normal (i.e. non-
XX cancerous) ovarian cells. The invention also relates to polypeptides
XX encoded by the markers, antibodies that selectively bind to the
XX polypeptides, a method of inhibiting ovarian cancer in a patient at risk
XX of developing ovarian cancer involving inhibiting expression of a gene
XX corresponding to a marker of the invention and a method of treating a
XX patient afflicted with ovarian cancer comprising providing to cells of
XX the patient an antisense oligonucleotide complementary to a marker of the
XX invention. The markers are useful for assessing if a patient is afflicted
XX with ovarian cancer, which involves comparing the level of expression of
XX a marker in a patient sample and a normal level of expression of the
XX marker in a control non-ovarian cancer sample. A difference between the
XX expression levels indicates ovarian cancer. The level of expression of a
XX marker corresponds to a secreted protein or to a transcribed
XX polynucleotide or its portion. The level of expression of the marker is
XX assessed by detecting the presence in the sample, a protein or protein
XX fragment corresponding to the marker. The presence of protein or protein
XX fragment is detected using an antibody that specifically binds with the
XX protein or protein fragment. Alternatively, the level of expression of
XX the marker is assessed by detecting the presence of a transcribed

CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer. In a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention.

CC SQ Sequence 458 BP; 89 A; 124 C; 126 G; 119 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 5; Length 458;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCTGAGGCCGAGAGTTTCGAGACCAAGCTGGCCAAACT 2940
DB 405 GGTGATCACCTGAGGCCGAGAGTTTCGAGACCAAGCTGGCCAAACT 360

RESULT 84
ABV60535
ID ABV60535 standard; cDNA; 497 BP.
XX
XX ABV60535;

AC 13-SEP-2002 (first entry)
XX
XX

DE Human prostate expression marker cDNA 60526.
XX

KM Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KM pharmacogenomic marker; gene; ss.
XX
XX

OS Homo sapiens.
XX

PM WO200160860-A2.
XX

PD 23-AUG-2001.
XX

PF 20-FEB-2001; 2001WO-US005171.
XX

PR 17-FEB-2000; 2000US-0183319P.
XX

PR 16-MAR-2000; 2000US-0189862P.
XX

PR 25-MAY-2000; 2000US-0207454P.
XX

PR 09-JUN-2000; 2000US-0211314P.
XX

PR 18-JUL-2000; 2000US-0219007P.
XX

PR 13-DEC-2000; 2000US-0255281P.
XX

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX

PI Schlegel R, Endege WO, Monahan JE;
XX

DR MPI; 2001-662795/76.
XX

PT Novel isolated nucleic acid molecule associated with cancerous state of
XX prostate cells and correlating with presence of prostate cancer, useful
XX for detecting presence of prostate cancer, stage of prostate cancer.

PS Claim 1; Page 11527; 11750bp; English.
XX

CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for: (a) assessing whether
CC a patient is afflicted with prostate cancer; (b) monitoring the
CC progression of prostate cancer in a patient; (c) assessing the efficacy
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
CC determining whether prostate cancer has metastasized in a patient; (h)
CC assessing the aggressiveness or indolence of prostate cancer in a patient

CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker
XX
SQ Sequence 497 BP; 145 A; 101 C; 133 G; 118 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 5; Length 497;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCTGAGGCCGAGAGTTTCGAGACCAAGCTGGCCAAACT 2940
DB 192 GGTGATCACCTGAGGCCGAGAGTTTCGAGACCAAGCTGGCCAAACT 237

RESULT 85
AAH18284/C
ID AAH18284 standard; cDNA; 2537 BP.
XX
XX AAH18284;

AC 26-JUN-2001 (first entry)
XX
XX

DE Human cDNA sequence SEQ ID NO:18263.
XX

KM Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX

OS Homo sapiens.
XX

PM EP1074617-A2.
XX

PD 07-FEB-2001.
XX

PF 28-JUL-2000; 2000BP-00116126.
XX

PR 29-AUG-1999; 99JP-00248036.
XX

PR 27-AUG-1999; 99JP-00300253.
XX

PR 11-JAN-2000; 2000JP-00118776.
XX

PR 02-MAY-2000; 2000JP-00183767.
XX

PR 09-JUN-2000; 2000JP-00241899.
XX

PA (HELI-) HELIX RES INST.
XX

PI Ota T, Isegai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
XX

PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX

DR MPI; 2001-318749/34.
XX

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-
XX length cDNAs defined in the specification, and for the detection and/or
XX diagnosis of the abnormality of the proteins encoded by the full-length
XX cDNAs.

PS Claim 8; SEQ ID NO 18263; 2537bp + Sequence Listing; English.
XX

CC The present invention describes primer sets for synthesizing 5602 full-
CC length cDNAs defined in the specification. Where a primer set comprises:
CC (a) an oligo-dT primer and an oligonucleotide complementary to the
CC complementary strand of a polynucleotide which comprises one of the 5602
CC nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in the
CC specification. The primer sets can be used in antisense therapy and in
CC gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent

CC oligonucleotides, all of which are used in the exemplification of the
 CC present invention

XX Sequence 2537 BP; 756 A; 503 C; 473 G; 805 T; 0 U; 0 Other;

XX Query Match 1.5%; Score 46; DB 4; Length 2537;

XX Best Local Similarity 100.0%; Pred. No. 1.1e-10;

XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 2895 GGTGGATCAGCTGAGCCAGAGTTTCAGACCCAGCTGGCCACAT 2940

XX 1359 GGTGGATCAGCTGAGCCAGAGTTTCAGACCCAGCTGGCCACAT 1314

RESULT 86

ADY15647

ID ADY15647 standard; DNA; 6530 BP.

XX ADY15647;

XX 05-MAY-2005 (first entry)

XX DNA encoding a PRO polypeptide, SEQ ID NO 1453.

XX Antinflammatory; Immune disorder; Dermatological; Immunosuppressive;

XX Antirheumatic; Antiarthritic; Osteopathic; Hemostatic; Antianemic;

XX Antihypertoid; Antidiabetic; Nephrotropic; CNS-Gen.; Hepatotropic;

XX Virucide; Gastrointestinal-Gen.; Antipneumatic; Antistomatitic;

XX Antiallergic; de; gene; diagnosis.

XX Homo sapiens.

XX WO2005016962-A2.

XX 24-FEB-2005.

XX 11-AUG-2004; 2004WO-US026249.

XX 11-AUG-2003; 2003US-0493546P.

XX (GETH) GENENTECH INC.

XX Abbas A, Clark H, Ouyang W, Williams MP, Wood WI, Wu TD;

XX WPI; 2005-182330/19.

XX New nucleic acid encoding PRO polypeptide, useful for diagnosing and

XX treating an immune related disorder, e.g. systemic lupus erythematosus,

XX rheumatoid arthritis, osteoarthritis, thyroiditis, or diabetes mellitus.

XX Claim 1; SEQ ID NO 1453; 158pp; English.

XX The invention relates to an isolated nucleic acid encoding a PRO

XX polypeptide. The polypeptide, agonist or an antagonist, antibody,

XX composition, and method are useful for diagnosing and treating an immune

XX related disorder, e.g. systemic lupus erythematosus, rheumatoid

XX arthritis. The present sequence represents a DNA encoding a PRO

XX polypeptide.

XX Sequence 6530 BP; 1644 A; 1400 C; 1429 G; 2057 T; 0 U; 0 Other;

XX Query Match 1.5%; Score 46; DB 14; Length 6530;

XX Best Local Similarity 100.0%; Pred. No. 1e-10;

XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 2895 GGTGGATCAGCTGAGCCAGAGTTTCAGACCCAGCTGGCCACAT 2940

XX 3499 GGTGGATCAGCTGAGCCAGAGTTTCAGACCCAGCTGGCCACAT 3544

XX RESULT 87

XX ACC82887/C

XX ID ACC82887 standard; DNA; 7001 BP.

XX ACC82887;

XX 27-AUG-2003 (first entry)

XX Human thyroid hormone receptor interactor 6 (TRIP6) gene fragment.

XX Human; antileiense; thyroid hormone receptor interactor 6; TRIP6; tumour;

XX OPA-interacting protein-1; OIP-1; zyxin-related protein-1; prophylaxis;

XX inflammation; therapy; hyperproliferative disorder; infection; cancer;

XX chromosome 7q22; ZRP-1; de.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

XX 486..740

XX /tag= a

XX /number= 1

XX 741..994

XX /tag= b

XX /number= 1

XX 995..1122

XX /tag= c

XX /number= 2

XX 1123..1241

XX /tag= d

XX /number= 2

XX 1242..1367

XX /tag= e

XX /number= 3

XX 1368..1628

XX /tag= f

XX /number= 3

XX 1629..2000

XX /tag= g

XX /number= 4

XX 2001..3503

XX /tag= h

XX /number= 4

XX 3504..3597

XX /tag= i

XX /number= 5

XX 3598..3707

XX /tag= j

XX /number= 5

XX 3708..3877

XX /tag= k

XX /number= 6

XX 3878..4676

XX /tag= l

XX /number= 6

XX 4677..4855

XX /tag= m

XX /number= 7

XX 4856..5757

XX /tag= n

XX /number= 7

XX 5758..5878

XX /tag= o

XX /number= 8

XX 5879..6305

XX /tag= p

XX /number= 8

XX 6306..6650

XX /tag= q

XX /number= 9

XX WO2003040328-A2.

XX 15-MAY-2003.

XX 05-NOV-2002; 2002WO-US035479.

[illegible]

PR	11-JUL-2000	2000US-02174966
PR	14-JUL-2000	2000US-02182630
PR	26-JUL-2000	2000US-02209636
PR	26-JUL-2000	2000US-02209649
PR	14-AUG-2000	2000US-02245181
PR	14-AUG-2000	2000US-02245198
PR	14-AUG-2000	2000US-02252133
PR	14-AUG-2000	2000US-02252144
PR	14-AUG-2000	2000US-02252666
PR	14-AUG-2000	2000US-02252677
PR	14-AUG-2000	2000US-02252688
PR	14-AUG-2000	2000US-02252700
PR	14-AUG-2000	2000US-02254477
PR	14-AUG-2000	2000US-02255757
PR	14-AUG-2000	2000US-02257588
PR	14-AUG-2000	2000US-02257598
PR	18-AUG-2000	2000US-02262797
PR	22-AUG-2000	2000US-02266611
PR	22-AUG-2000	2000US-02268688
PR	22-AUG-2000	2000US-02271828
PR	31-AUG-2000	2000US-02277009
PR	30-AUG-2000	2000US-02289249
PR	01-SEP-2000	2000US-02292877
PR	01-SEP-2000	2000US-02293833
PR	01-SEP-2000	2000US-02293934
PR	01-SEP-2000	2000US-02293945
PR	05-SEP-2000	2000US-02295098
PR	05-SEP-2000	2000US-02295137
PR	06-SEP-2000	2000US-02304377
PR	06-SEP-2000	2000US-02304388
PR	08-SEP-2000	2000US-02312428
PR	08-SEP-2000	2000US-02312433
PR	08-SEP-2000	2000US-02312444
PR	08-SEP-2000	2000US-02314133
PR	08-SEP-2000	2000US-02314144
PR	08-SEP-2000	2000US-02320808
PR	08-SEP-2000	2000US-02320811
PR	12-SEP-2000	2000US-02319688
PR	14-SEP-2000	2000US-02323377
PR	14-SEP-2000	2000US-02323388
PR	14-SEP-2000	2000US-02323398
PR	14-SEP-2000	2000US-02324008
PR	14-SEP-2000	2000US-02324011
PR	14-SEP-2000	2000US-02324018
PR	14-SEP-2000	2000US-02330633
PR	14-SEP-2000	2000US-02330644
PR	14-SEP-2000	2000US-02330655
PR	21-SEP-2000	2000US-02342233
PR	21-SEP-2000	2000US-02342744
PR	25-SEP-2000	2000US-02349977
PR	25-SEP-2000	2000US-02349988
PR	25-SEP-2000	2000US-02354844
PR	27-SEP-2000	2000US-02358844
PR	27-SEP-2000	2000US-02358856
PR	29-SEP-2000	2000US-02363377
PR	29-SEP-2000	2000US-02363677
PR	29-SEP-2000	2000US-02363688
PR	29-SEP-2000	2000US-02363698
PR	29-SEP-2000	2000US-02363708
PR	02-OCT-2000	2000US-02368022
PR	02-OCT-2000	2000US-02370337
PR	02-OCT-2000	2000US-02370388
PR	02-OCT-2000	2000US-02412211
PR	02-OCT-2000	2000US-02412218
PR	20-OCT-2000	2000US-02417866
PR	20-OCT-2000	2000US-02417877
PR	20-OCT-2000	2000US-02418088
PR	20-OCT-2000	2000US-02418098
PR	20-OCT-2000	2000US-02418266

PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236328P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.

PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251858P.
PR 08-DEC-2000; 2000US-0251859P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-488786/53.
XX
XX New isolated ovarian and/or breast cancer related nucleic acids and
PT polypeptides, useful for diagnosing, treating and/or preventing human
PT diseases and disorders, particularly ovarian and/or breast cancer.
XX
XX
PS Disclosure; SEQ ID NO 930; 577bp + Sequence Listing; English.
XX
XX The invention relates to novel genes (ABA07454-ABA08224) and proteins
CC (ABAB10743-ABAB10980) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
CC; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX
SQ Sequence 13409 BP; 3673 A; 2774 C; 2856 G; 4106 T; 0 U; 0 Other;
Query Match 1.5%; Score 46; DB 4; Length 13409;
Best Local Similarity 100.0%; Pred. No. 1e-10;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3071 CAAGATTGGCACTGCACCTCGGCGCAACGACGACACTC 3116
DB 12121 CAAGATTGGCACTGCACCTCGGCGCAACGACGACACTC 12166
RESULT 90
ABK43029
ID ABK43029 standard; DNA; 18501 BP.
XX
XX ABK43029;
AC
XX
XX 21-MAY-2002 (first entry)
DT
XX
XX Genomic sequence #928 encoding novel human connective tissue polypeptide.
DB
XX
XX Human; connective tissue related disorder; cancer; gene therapy;
KW
XX
XX cytoskeletal; gene; ds.

XX Homo sapiens.
OS
XX WO200155343-A1.
PN
XX 02-AUG-2001.
PD
XX
PF 17-JAN-2001; 2001WO-US001322.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225477P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 23-AUG-2000; 2000US-0227182P.
PR 30-AUG-2000; 2000US-0227009P.
PR 01-SEP-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR

PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250319P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX

PA (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Barash SC, Ruben SM;
XX WPI, 2001-565190/63.
XX
PT Nucleic acid encoding novel connective tissue associated polypeptides,
PT used in diagnosing, preventing, treating or ameliorating a disorder such
PT as cancer or rheumatoid arthritis.
XX
XX Disclosure; SEQ ID NO 1916; 673bp; English.
XX
XX The present invention relates to the isolation of novel human connective
XX tissue related polypeptides (AAU86435-AAU86923) and the polynucleotide
XX (cDNA and genomic) sequences encoding them. The sequences of the
XX invention are useful in the diagnosis, treatment, prevention and/or
XX prognosis of diseases associated with connective tissue(s), including
XX cancer. The polynucleotide sequences of the invention are also useful in
XX gene therapy. ABK42102-ABK43116 represent genomic sequences encoding the
XX novel human connective tissue related polypeptides. Note: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 18501 BP; 5504 A; 3746 C; 3948 G; 5301 T; 0 U; 2 Other;

Query Match 1.5%; Score 46; DB 4; Length 18501;
Best Local Similarity 100.0%; Pred. No. 9.9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3071 CAAGATTGCGCACTGCACTCCAGCTGCGGCAACAGACAGACATC 3116
DB 224 CAGATTGCGCACTGCACTCCAGCTGCGGCAACAGACAGACATC 269

RESULT 91
ADB61185
ID ADB61185 standard; DNA; 18501 BP.
XX
XX ADB61185;
AC
XX
XX 04-DEC-2003 (first entry)
DE
XX
XX Connective tissue related genomic DNA #928.
XX
XX cytostatic; neuroprotective; nootropic; antiparkinsonian; cardiovascular;
XX antiarteriosclerotic; immunosuppressive; antirheumatic; antiarthritic;
XX antiinflammatory; antiallergic; antibacterial; dermatological;
XX nephroprotic; virucide; fungicide; antibacterial; antiparasitic;
XX gene therapy; ds; connective tissues disorder; rheumatoid arthritis;
XX systemic lupus erythematosus; scleroderma; Sjogren's syndrome; cancer;
XX cancer metastasis; neoplasia; leukaemia; neurodegenerative disorder;
XX Alzheimer's disease; Parkinson's disease; cardiovascular disease;
XX atherosclerosis; myocarditis; cardiopulmonary bypass complication;
XX autoimmune diseases; multiple sclerosis; allergic reaction; asthma;
XX rhinitis; eczema; inflammatory condition; Crohn's disease; nephritis;
XX gastrointestinal disorder; inflammatory bowel disease;
XX organ transplant rejection; immune system disorder; Bruton's disease;
XX X-linked lymphoproliferative syndrome;
XX B-cell lymphoproliferative disorder; HIV; AIDS; infection;
XX chromosome identification; chromosome mapping;
XX connective tissue related polynucleotide; gene; ds.
XX
XX Homo sapiens.
XX
XX US2003054375-A1.
XX
XX 20-MAR-2003.
XX
XX 07-MAR-2002; 2002US-00092154.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX
XX 04-FEB-2000; 2000US-0180628P.
XX

PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 29-SEP-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR

PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-023935P.
PR 13-OCT-2000; 2000US-023937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 17-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259676P.
PR 17-JAN-2001; 2001US-00764847.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM, Barash SC;

XX MPI; 2003-634869/60.

DR P-PSDB; ADB59732.

XX New connective tissue-related polypeptides and polynucleotides, useful
PT for treating, preventing and/or prognosing e.g. disorders of connective
PT tissue, (e.g. rheumatoid arthritis), cancers, cancer metastases and/or

PT neoplasias.
XX Disclosure; SEQ ID NO 1916; 248bp; English.
XX
CC The invention describes an isolated nucleic acid molecule (I), which
CC comprises a sequence that is at least 95 % identical to a connective
CC tissue-related polynucleotide encoding connective tissue antigens (CTA).
CC The polypeptide or polynucleotide is useful for preventing, treating, or
CC ameliorating medical conditions in a mammal. The connective tissue
CC polypeptides, polynucleotides and antibodies are particularly useful for
CC treating, preventing and/or prognosing disorders of connective tissues
CC (e.g. rheumatoid arthritis, discoid and systemic lupus erythematosus,
CC scleroderma, or Sjogren's syndrome), cancers, cancer metastases and/or
CC neoplasias (e.g. leukemia), neurodegenerative disorders (e.g.
CC Alzheimer's disease, or Parkinson's disease), cardiovascular diseases
CC (e.g. atherosclerosis, myocarditis or cardiomyopathy bypass
CC complications), autoimmune diseases (e.g. systemic lupus erythematosus,
CC rheumatoid arthritis, or multiple sclerosis), allergic reactions (e.g.

Query Match 1.5%; Score 46; DB 9; Length 18501;
Best Local Similarity 100.0%; Pred. No. 9.9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCGCACTGCATCTCCAGCTTGGGCAACAGCAAGCTC 3116
Db 224 CAAGATTGTGCGCACTGCATCTCCAGCTTGGGCAACAGCAAGCTC 269

RESULT 92

ADC21019/C
ID ADC21019 standard; DNA; 18501 BP.

AC ADC21019;

DT 18-DEC-2003 (first entry)

XX Human secreted protein-related DNA sequence #437.

KW gene therapy; human; secreted protein; haemopoietic disorder;
KW haematological disorder; anaemia; haemophilia; inflammatory disorder;
KW inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;
KW leukaemia; wound healing; epithelial cell proliferation disorder;
KW immune disorder; autoimmune disorder; asthmatic disorder;
KW cardiovascular disorder; atherosclerosis; myocarditis;
KW infectious disease; HIV; AIDS; endocrine disorder; diabetes;
KW gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.

XX Homo sapiens.

OS Homo sapiens.

PN WO200292787-A2.

PD 21-NOV-2002.

PP 26-MAR-2002; 2002WO-US009257.

XX 27-MAR-2001; 2001US-0278650P.

PR 12-SEP-2001; 2001US-00950082.

PR 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX MPI; 2003-129287/12.

XX New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing,
PT preventing or treating hematopoietic or hematologic disorders, e.g.
XX anemia or hemophilia.

PS Disclosure; SEQ ID NO 973; 1512bp; English.

XX The invention comprises the amino acid and coding sequences of human

CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for detecting, preventing, diagnosing, prognosticating, treating
CC or ameliorating: haematopoietic or haematological disorders (e.g. anaemia
CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease
CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);
CC wound healing and disorders of epithelial cell proliferation; immune
CC disorders (e.g. autoimmune disorders and asthmatic disorders);
CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);
CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
CC and gastrointestinal disorders (e.g. duodenal ulcers and
CC gastroenteritis). The present DNA sequence was used in the
CC exemplification of the invention.

XX Sequence 18501 BP; 5301 A; 3948 C; 3746 G; 5504 T; 0 U; 2 Other;

Query Match 1.5%; Score 46; DB 10; Length 18501;
Best Local Similarity 100.0%; Pred. No. 9.9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGAGACTC 3116
DB 18278 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGAGACTC 18233

RESULT 93
ID ABT17021/C
ABT17021 standard; DNA; 18501 BP.

AC ABT17021;
XX
DT 03-APR-2003 (first entry)

DE Human secreted protein-related DNA sequence - SEQ ID NO 375.

XX Human; gene; ds; protein therapy; immediate hypersensitivity disease;
KW allergic disorder; asthmatic disorder; gene therapy; secreted protein;
KW hay fever; allergic conjunctivitis; allergic rhinitis;
KW binding partner identification; chromosome identification;
KW radiation hybrid mapping; long-range restriction mapping.

XX Homo sapiens.

XX WO200277186-A2.

XX 03-OCT-2002.

XX 26-MAR-2002; 2002WO-US009239.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-175010/17.

PT Use of human secreted proteins and nucleic acids for preparing a
PT diagnostic or pharmaceutical composition for diagnosing or treating
PT allergic or asthmatic disorders, e.g. asthma, hay fever, or allergic
PT conjunctivitis or rhinitis.

XX Disclosure; Page 810-815; 823pp; English.

XX The invention comprises the amino acid and coding sequences of human
CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for the diagnosis and treatment of allergic disorders, asthmatic
CC disorders and immediate hypersensitivity diseases (e.g. hay fever,
CC allergic conjunctivitis and allergic rhinitis). The proteins of the
CC invention are also useful for identifying a binding partner. The nucleic
CC acids of the invention are also useful for chromosome identification,
CC radiation hybrid mapping or long-range restriction mapping. The present

CC DNA sequence represents a human secreted protein-related DNA sequence
XX Sequence 18501 BP; 5301 A; 3948 C; 3746 G; 5504 T; 0 U; 2 Other;

Query Match 1.5%; Score 46; DB 10; Length 18501;
Best Local Similarity 100.0%; Pred. No. 9.9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGAGACTC 3116
DB 18278 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGAGACTC 18233

RESULT 94
ID ABZ68161/C
ABZ68161 standard; DNA; 18501 BP.

AC ABZ68161;
XX
DT 26-MAR-2003 (first entry)

DE Human secreted protein encoding genomic DNA SEQ ID NO 1684.

XX Human; secreted protein; nootropic; neuroprotective; cyostatic;
KW virucide; dermatological; immunosuppressive; anti-inflammatory; anti-HIV;
KW vulnery; antibacterial; antiparkinsonian; antischlicking; antihaemic;
KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
KW antiinflammatory; antiallergic; antidiabetic; antitumor; anticonvulsant;
KW antifungal; antiparasitic; cardiac; immune disorder; infection; vaccine;
KW cardiovascular disorder; neurological disease; nephrotropic;
KW gene therapy; gene; ds.

XX Homo sapiens.

XX WO200277186-A2.

XX 03-OCT-2002.

XX 26-MAR-2002; 2002WO-US009188.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-040583/03.

PT New human secreted proteins encoded by genes contained in cDNA clones
PT (e.g. HGAC19), useful for preventing, treating or diagnosing e.g. AIDS,
PT multiple sclerosis, herpes virus, leukemia, tick-borne encephalitis or
PT West Nile fever.

XX Disclosure; Page 2321-2325; 2423pp; English.

XX The invention relates to novel human genes (ABZ66891-ABZ68209) and the
CC encoded secreted proteins (ABP99470-ABP99872) useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The genes are isolated from a range of human tissues disclosed
CC in the specification. The nucleic acids, proteins, antibodies and
CC (ant)agonists are useful in the diagnosis, treatment and prevention of:
CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the
CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
CC lung or urogenital; (b) immune disorders e.g. Addison's disease,
CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.
CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
CC bacterial, fungal and parasitic infections

|||||
DB 4783 GGTGATCATCCTGAGGCCGAGATTGAGACCAAGCCTGGCAACAT 4738
RESULT 97
AD242284/c
ID AD242284 standard; DNA; 58000 BP.
XX
AC AD242284;
XX
XX 14-JUL-2005 (first entry)
XX
DE Human Klotho gene with C49620T SNP Seq 11.
XX
KM renal disease; nephrotropic; SNP detection;
KM single nucleotide polymorphism; SNP; Klotho; ds; gene.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT 5'UTR /tag= .5215
FT CDS /tag= a
FT /tag= .50554
FT /product= "Klotho protein"
FT exon 5216..6034
FT /tag= b
FT /number= 1
FT intron 6035..42540
FT /tag= d
FT /number= 1
FT exon 42541..43051
FT /tag= e
FT /number= 2
FT intron 43052..43820
FT /tag= f
FT /number= 2
FT exon 43821..44140
FT /tag= g
FT /number= 3
FT intron 44141..49452
FT /tag= h
FT /number= 3
FT exon 49453..50554
FT /tag= i
FT /number= 4
FT variation 49620
FT /tag= j
FT /standard name= "single nucleotide polymorphism"
FT 3'UTR 52961..54916
FT /tag= k
XX
XX JP2005110606-A.
XX
XX 28-APR-2005.
XX
XX 09-OCT-2003; 2003JP-00350959.
XX
XX 09-OCT-2003; 2003JP-00350959.
XX
XX (KOKU-) KOKURITSU JUNKANKI BYO CENT SOCHO.
XX (DOKU-) DOKURITSU GYOSEI HOJIN IYAKUJIN IRYO KIK.
XX
XX WPI; 2005-326228/34.
XX
XX Testing hypertensive renal disease factor, by determining polymorphism in
XX genotype of gene relevant to hypertensive renal disease, and estimating
XX risk factor for hypertensive renal disease based on determined genotype,
XX as index.
XX
XX Claim 1; SEQ ID NO 11; 440bp; Japanese.
XX
XX This invention relates to a novel method for testing hypertensive renal

CC disease. Specifically, it refers to determining polymorphisms in the
CC genotype of a gene relevant to hypertensive renal disease and estimating
CC the risk factor for developing the disease accordingly. The present
CC invention describes identifying gene polymorphisms in at least one of the
CC following genes, namely endothelin converting-enzyme 1, mineralocorticoid
CC receptor, urotensin II, superoxide-dismutase 3, thiazide sensitivity NaCl
CC symporter, guanosine cyclase-A, hepatocyte growth factor, beta-3
CC adrenoreceptor, aldosterone synthetase, endothelium nitrogen monoxide
CC synthetase, klotho and a sodium-calcium exchanger. Furthermore, it
CC provides primers and probes for determining hypertensive renal disease
CC factors, in particular in relation to renal diseases including
CC hypertensive early renal disease and hypertensive kidney blood flow
CC obstruction. The method enables detection of risk factors, and thus helps
CC in preventing or delaying renal disease. This polymucleotide sequence is
CC the full length human Klotho gene given in an exemplification of the
CC invention.
XX
SQ Sequence 58000 BP; 16432 A; 11653 C; 11941 G; 17973 T; 0 U; 1 Other;
XX
Query Match 1.5%; Score 46; DB 14; Length 58000;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3071 CAAGATTGTGCCACTGCATCTCCAGCCTGGCAACAGACAGACTC 3116
DB 36196 CAAGATTGTGCCACTGCATCTCCAGCCTGGCAACAGACAGACTC 36151
RESULT 98
ABD33407/c
ID ABD33407 standard; DNA; 58922 BP.
XX
XX ABD33407;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human cancer-associated (CA) gene HD07-076.
XX
XX Human, cancer-associated protein; CAP; cancer-associated gene; CA; gene;
XX ds; cancer; cytostatic.
XX
XX Homo sapiens.
XX
XX WO2004058146-A2.
XX
XX 15-JUL-2004.
XX
XX 15-DEC-2003; 2003WO-US040081.
XX
XX 17-DEC-2002; 2002US-00322281.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX
XX WPI; 2004-499109/47.
XX
XX Novel human cancer associated protein encoded within open reading frame
XX of cancer associated gene, useful as targets for diagnosing cancer.
XX
XX Claim 16; SEQ ID NO 526; 182bp; English.
XX
XX The invention relates to cancer-associated proteins (CAP) and the cancer-
XX associated (CA) nucleic acids encoding them. The invention also relates
XX to a method for treating cancers involving administering to a patient an
XX inhibitor of CAP, and a method of screening for anticancer activity in a
XX potential drug involving providing a cell that expresses a CA gene,
XX contacting a tissue sample derived from a cancer cell with an anticancer
XX drug candidate and monitoring the effect of the anticancer drug candidate
XX on expression of the CA gene. The CAP proteins are useful for detecting
XX cancer associated with expression of a CAP protein in a test cell sample
XX and for screening for a bioactive agent capable of modulating the
XX activity of a CAP protein. The CA nucleic acids are useful for diagnosing

CC cancer, involving determining the expression of a CA nucleic acid in a
CC tissue. This sequence represents a human CA gene of the invention. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)

XX Sequence 58922 BP; 13257 A; 15256 C; 16255 G; 14082 T; 0 U; 72 Other;

SQ Query Match 1.5%; Score 46; DB 13; Length 58922;

Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 3116

Db 53826 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 53781

RESULT 99
ADZ12540
ID ADZ12540 standard; DNA; 70271 BP.

XX ADZ12540;

XX 16-JUN-2005 (first entry)

XX Human cancer-associated genomic DNA #7.

XX Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;

XX cytostatic; gene; de.

XX Homo sapiens.

XX WO2005031001-A2.

XX 07-APR-2005.

XX 23-SEP-2004; 2004WO-US031617.

XX 23-SEP-2003; 2003US-00669920.

XX (CHIR) CHIRON CORP.

XX Morris DW, Malandro MS;

XX WPI; 2005-273395/28.

XX Nucleic acid array useful for detecting cancer associated nucleic acid,
PT comprises two or more nucleic acid probes.

XX Disclosure; SEQ ID NO 60; 198bp; English.

XX The invention relates to a nucleic acid array for detecting a cancer
XX associated (CA) nucleic acid, comprising two or more nucleic acid probes.

XX The invention also relates to a peptide array comprising two or more
XX isolated polypeptides encoded by a CA nucleic acid sequence, a compound
XX that binds to a polypeptide, an isolated antibody or its fragment which
XX binds to a polypeptide, which is prepared by immunizing a host animal
XX with a composition comprising the polypeptide or its antigen binding
XX fragment and collecting cells from the host expressing antibodies against

XX the antigen or its antigen binding fragment, a composition comprising the
XX antibody and a carrier, a method of screening for anticancer activity, a
XX method of detecting a CA nucleic acid, a method of diagnosing cancer, a
XX method of treating cancer and a method of inhibiting expression of a CA
XX nucleic acid in a cell. The CA nucleic acids are useful for detecting CA

XX nucleic acids. The antibody is useful for detecting the presence or
XX absence of cancer cells in an individual which involves contacting cells
XX from the individual with the antibody and detecting a complex of a CA
XX protein from the cancer cells and the antibody, where the detection of
XX the complex correlates with the presence of cancer cells in the
XX individual. The composition is useful for inhibiting growth of cancer
XX cells in an individual or for delivering a therapeutic agent to cancer
XX cells in an individual. The invention is also useful for diagnosing

XX cancer, for treating cancer and for inhibiting expression of a CA gene in

CC a cell. This sequence represents human cancer-associated genomic DNA of
CC the invention.

XX Sequence 70271 BP; 19379 A; 15870 C; 15381 G; 19641 T; 0 U; 0 Other;

SQ Query Match 1.5%; Score 46; DB 14; Length 70271;

Best Local Similarity 100.0%; Pred. No. 9.4e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 3116

Db 42048 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 42093

RESULT 100
ADE95974
ID ADE95974 standard; DNA; 96594 BP.

XX ADE95974;

XX 12-FEB-2004 (first entry)

XX Human SYK gene genomic DNA sequence.

XX cancer diagnosis; cancer treatment; carcinoma; cytostatic; gene therapy;

XX lymphoma; breast cancer; prostate cancer; leukemia; de; human; SYK.

XX Homo sapiens.

XX WO2003039484-A2.

XX 15-MAY-2003.

XX 08-NOV-2002; 2002WO-US036071.

XX 08-NOV-2001; 2001US-00052482.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW, Engelhard EK;

XX WPI; 2003-441462/41.

XX New carcinoma associated nucleic acids and proteins, useful for screening
XX drug candidates, or for diagnosing and treating carcinomas, e.g.
XX lymphoma, breast cancer, prostate cancer or leukemia.

XX Claim 1; SEQ ID NO 232; 793bp; English.

XX This invention relates to novel recombinant nucleic acids for use in
XX diagnosis and treatment of cancer, especially carcinomas, as well as the
XX use of compositions in screening methods. The compositions of the
XX invention may have cytostatic activity whilst the disclosed sequences may
XX be useful for gene therapy. The carcinoma associated nucleic acids and
XX proteins are useful for diagnosing and treating carcinomas, for example
XX lymphoma, breast cancer, prostate cancer or leukemia, or for screening
XX drug candidates or bioactive agents capable of binding to, or modulating
XX the activity of, a carcinoma associated protein. The present sequence is
XX the genomic DNA sequence of the human SYK gene which is a carcinoma
XX associated gene of the invention.

XX Sequence 96594 BP; 27524 A; 20558 C; 21159 G; 26914 T; 0 U; 439 Other;

SQ Query Match 1.5%; Score 46; DB 10; Length 96594;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 3116

Db 57089 CAAGATTGTGCACTGCATCTCCAGCTTGGGCAACAGCAAGACTC 57134

RESULT 101

ADA02726
ID ADA02726 standard; DNA; 96595 BP.
XX
AC ADA02726;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human SYK carcinoma associated gene, SEQ ID NO:1244.
XX
KW Human; carcinoma associated; oncogene; carcinoma; cancer; breast;
KW prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO2003057146-A2.
XX
PD 17-JUL-2003.
XX
PF 26-DEC-2002; 2002WO-US041414.
XX
PR 26-DEC-2001; 2001US-00035832.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW;
XX
DR WPI; 2003-587068/55.
XX
PT New recombinant nucleic acid encoding carcinoma associated protein,
PT useful for preparing compositions for treating carcinomas.
XX
PS Claim 1; SEQ ID NO 1244; 245bp; English.
XX
CC The invention relates to recombinant carcinoma associated (CA) nucleic
CC acid sequences from mouse and human (ADA01482-ADA03094), and to
CC recombinant carcinoma associated proteins (CAP) encoded by them. The
CC invention also encompasses expression vectors and host cells comprising a
CC CA nucleic acid, a polypeptide (especially an antibody) that specifically
CC binds to the protein, and a biochip comprising CA nucleic acid or
CC fragments thereof. The sequences of the invention were identified using
CC oncogenic retroviruses, which insert into the genome of the host organism
CC at random. Many of these do not carry transduced host oncogenes or
CC pathogenic trans-acting viral genes, meaning that cancer incidence is a
CC direct consequence of the effects of proviral integration into host
CC protooncogenes. The CA nucleic acid sequences can be used to diagnose
CC carcinoma (especially breast cancer, prostate cancer, lymphoma or
CC leukaemia) or a propensity to carcinoma by determination of the sequence
CC of a CA gene, or by determination of CA gene expression in particular
CC tissues. CA nucleic acids, proteins and antibodies are also useful as
CC therapeutic agents and in screening and evaluating drug candidates. The
CC present sequence represents a specifically claimed human CA nucleic acid
CC sequence of the invention. Note: The complete sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 96595 BP; 27524 A; 20559 C; 21158 G; 26915 T; 0 U; 439 Other;

Query Match 1.5%; Score 46; DB 9; Length 96595;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCACTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 3116
DB 57090 CAAGATTGTGCCACTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 57135

RESULT 102
ADB72464
ID ADB72464 standard; DNA; 96595 BP.
XX
AC ADB72464;

XX
DT 04-DEC-2003 (first entry)
XX
DE Human SYK gene.
XX
KW human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;
KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.
XX
OS Homo sapiens.
XX
PN WO2003008583-A2.
XX
PD 30-JAN-2003.
XX
PF 26-DEC-2001; 2001WO-US051291.
XX
PR 02-MAR-2001; 2001US-00798586.
XX
PR 23-OCT-2001; 2001US-00004113.
XX
PR 08-NOV-2001; 2001US-00052482.
XX
PR 30-NOV-2001; 2001US-00997722.
XX
PR 20-DEC-2001; 2001US-00034650.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW, Engelhard EK;
XX
DR WPI; 2003-239337/23.
XX
PT New recombinant nucleic acid, useful for treating carcinomas, lymphomas,
PT cancers, neoplasm, adenocarcinoma, or sarcomas.
XX
PS Claim 1; SEQ ID NO 292; 2304bp; English.
XX
CC The invention relates to a novel recombinant nucleic acid comprising a
CC nucleotide sequence selected from any of the 660 sequences fully defined
CC in the specification. A polynucleotide of the invention has cytostatic
CC activity, and may have a use in gene therapy, or in a vaccine. The
CC recombinant nucleic acids and polypeptides are useful for treating
CC carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and
CC sarcomas. The present sequence represents a human gene of the invention.
XX
SQ Sequence 96595 BP; 27524 A; 20559 C; 21158 G; 26915 T; 0 U; 439 Other;

Query Match 1.5%; Score 46; DB 10; Length 96595;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCACTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 3116
DB 57090 CAAGATTGTGCCACTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 57135

RESULT 103
ADO56274/C
ID ADO56274 standard; DNA; 99100 BP.
XX
AC ADO56274;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human cyclin-dependent kinase 10, CDK10, genomic sequence.
XX
KW gene therapy; human; ds; gene; melanoma;
KW melanoma associated polymorphic variation; SNP;
KW single nucleotide polymorphism; cyclin-dependent kinase 10; CDK10.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FH 139
FT variation
FT /tag= a
FT /note= "Single nucleotide polymorphism"
FT 424

FT	/tag= b		FT	/note= "single nucleotide polymorphism"
FT	/note= "single nucleotide polymorphism"		FT	variation
FT	2898		FT	/tag= aa
FT	/tag= c		FT	/note= "single nucleotide polymorphism"
FT	/note= "single nucleotide polymorphism"		FT	variation
FT	3166		FT	21599
FT	/tag= d		FT	/tag= ab
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	3501		FT	22081
FT	/tag= e		FT	/tag= ac
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	3525		FT	23427
FT	/tag= f		FT	/tag= ad
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	4165		FT	27153
FT	/tag= g		FT	/tag= ae
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	4647		FT	27535
FT	/tag= h		FT	/tag= af
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	7960		FT	27859
FT	/tag= i		FT	/tag= ag
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	8081		FT	33527
FT	/tag= j		FT	/tag= ah
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	8194		FT	34152
FT	/tag= k		FT	/tag= ai
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	9640		FT	39455
FT	/tag= l		FT	/tag= aj
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	13285		FT	39762
FT	/tag= m		FT	/tag= ak
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	14845		FT	40292
FT	/tag= n		FT	/tag= al
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	14933		FT	40697
FT	/tag= o		FT	/tag= am
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	16275		FT	40831
FT	/tag= p		FT	/tag= an
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	16586		FT	41516
FT	/tag= q		FT	/tag= ao
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	16824		FT	41955
FT	/tag= r		FT	/tag= ap
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	17564		FT	42477
FT	/tag= s		FT	/tag= aq
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	18077		FT	43164
FT	/tag= t		FT	/tag= ar
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	18435		FT	43734
FT	/tag= u		FT	/tag= as
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	19300		FT	44029
FT	/tag= v		FT	/tag= at
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	19488		FT	44692
FT	/tag= w		FT	/tag= au
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	20864		FT	44986
FT	/tag= x		FT	/tag= av
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	21176		FT	46234
FT	/tag= y		FT	/tag= aw
FT	/note= "single nucleotide polymorphism"		FT	/note= "single nucleotide polymorphism"
FT	21338		FT	47754
FT	/tag= z		FT	/tag= ax
FT			FT	/note= "single nucleotide polymorphism"


```
FT variation 47914 /tag= ay
FT /note= "Single nucleotide polymorphism"
FT variation 49672 /tag= az
FT /note= "Single nucleotide polymorphism"
FT variation 50476 /tag= ba
FT /note= "Single nucleotide polymorphism"
FT variation 50525 /tag= bb
FT /note= "Single nucleotide polymorphism"
FT variation 50621 /tag= bc
FT /note= "Single nucleotide polymorphism"
FT variation 53410 /tag= bd
FT /note= "Single nucleotide polymorphism"
FT variation 53833 /tag= be
FT /note= "Single nucleotide polymorphism"
FT variation 59632 /tag= bf
FT /note= "Single nucleotide polymorphism"
FT variation 59646 /tag= bg
FT /note= "Single nucleotide polymorphism"
FT variation 59667 /tag= bh
FT /note= "Single nucleotide polymorphism"
FT variation 59676 /tag= bi
FT /note= "Single nucleotide polymorphism"
FT variation 59678 /tag= bj
```

Query Match 1.5%; Score 46; DB 12; Length 99100;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3071 CAAGATTGTGCCACTGCACCTCCAGGCTGGGCAACAGAGCAAGATC 3116
DB 16521 CAAGATTGTGCCACTGCACCTCCAGGCTGGGCAACAGAGCAAGATC 16476

RESULT 104
ADX80723/C
ID ADX80723 standard; DNA; 99250 BP.

AC ADX80723;

XX 05-MAY-2005 (first entry)

DE Human cyclin-dependent kinase 10 (CDK10) genomic DNA.

XX melanoma; DNA polymorphism; SNP detection; cytostatic; gene therapy; SNP;
KM single nucleotide polymorphism; gene; ds; chromosome 16.

OS Homo sapiens.

XX Key Location/Qualifiers

FH variation

FT /tag= a
FT /standard_name= "Single nucleotide polymorphism"

FT /tag= b
FT /standard_name= "Single nucleotide polymorphism"

FT /tag= c
FT /standard_name= "Single nucleotide polymorphism"

FT /tag= d
FT /standard_name= "Single nucleotide polymorphism"

FT /tag= d
FT /standard_name= "Single nucleotide polymorphism"

```
FT variation 3596 /tag= e
FT /standard_name= "Single nucleotide polymorphism"
FT variation 3620 /tag= f
FT /standard_name= "Single nucleotide polymorphism"
FT variation 4260 /tag= g
FT /standard_name= "Single nucleotide polymorphism"
FT variation 4742 /tag= h
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8055 /tag= i
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8176 /tag= j
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8289 /tag= k
FT /standard_name= "Single nucleotide polymorphism"
FT variation 9735 /tag= l
FT /standard_name= "Single nucleotide polymorphism"
FT variation 13380 /tag= m
FT /standard_name= "Single nucleotide polymorphism"
FT variation 14940 /tag= n
FT /standard_name= "Single nucleotide polymorphism"
FT variation 15028 /tag= o
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16370 /tag= p
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16681 /tag= q
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16919 /tag= r
FT /standard_name= "Single nucleotide polymorphism"
FT variation 17659 /tag= s
FT /standard_name= "Single nucleotide polymorphism"
FT variation 18172 /tag= t
FT /standard_name= "Single nucleotide polymorphism"
FT variation 18530 /tag= u
FT /standard_name= "Single nucleotide polymorphism"
FT variation 19395 /tag= v
FT /standard_name= "Single nucleotide polymorphism"
FT variation 19583 /tag= w
FT /standard_name= "Single nucleotide polymorphism"
FT variation 20959 /tag= x
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21271 /tag= y
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21433 /tag= z
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21438 /tag= aa
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21694 /tag= ab
FT /standard_name= "Single nucleotide polymorphism"
FT variation 22176 /tag= ab
FT /standard_name= "Single nucleotide polymorphism"
```

```

FT      /*tag= ac
FT      /standard_name= "Single nucleotide polymorphism"
FT      23522
FT      /*tag= ad
FT      /standard_name= "Single nucleotide polymorphism"
FT      27248
FT      /*tag= ae
FT      /standard_name= "Single nucleotide polymorphism"
FT      27630
FT      /*tag= af
FT      /standard_name= "Single nucleotide polymorphism"
FT      27954
FT      /*tag= ag
FT      /standard_name= "Single nucleotide polymorphism"
FT      33622
FT      /*tag= ah
FT      /standard_name= "Single nucleotide polymorphism"
FT      34247
FT      /*tag= ai
FT      /standard_name= "Single nucleotide polymorphism"
FT      36589
FT      /*tag= aj
FT      /standard_name= "Single nucleotide polymorphism"
FT      38672
FT      /*tag= ak
FT      /standard_name= "Single nucleotide polymorphism"
FT      39539
FT      /*tag= al
FT      /standard_name= "Single nucleotide polymorphism"
FT      39846
FT      /*tag= am
FT      /standard_name= "Single nucleotide polymorphism"
FT      40376
FT      /*tag= an
FT      /standard_name= "Single nucleotide polymorphism"
FT      40781
FT      /*tag= ao
FT      /standard_name= "Single nucleotide polymorphism"
FT      40915
FT      /*tag= ap
FT      /standard_name= "Single nucleotide polymorphism"
FT      41600
FT      /*tag= aq
FT      /standard_name= "Single nucleotide polymorphism"
FT      42039
FT      /*tag= ar
FT      /standard_name= "Single nucleotide polymorphism"
FT      42561
FT      /*tag= as
FT      /standard_name= "Single nucleotide polymorphism"
FT      43248
FT      /*tag= at
FT      /standard_name= "Single nucleotide polymorphism"
FT      43818
FT      /*tag= au
FT      /standard_name= "Single nucleotide polymorphism"
FT      44113
FT      /*tag= av
FT      /standard_name= "Single nucleotide polymorphism"
FT      44126
FT      /*tag= aw
FT      /standard_name= "Single nucleotide polymorphism"
FT      44544
FT      /*tag= ax
FT      /standard_name= "Single nucleotide polymorphism"
FT      44776
FT      /*tag= ay
FT      /standard_name= "Single nucleotide polymorphism"
FT      45070
FT      /*tag= az
FT      /standard_name= "Single nucleotide polymorphism"
FT      46318
FT      /*tag= ba

```

```

FT      /standard_name= "Single nucleotide polymorphism"
FT      47837
FT      /*tag= bb
FT      /standard_name= "Single nucleotide polymorphism"
FT      47997
FT      /*tag= bc
FT      /standard_name= "Single nucleotide polymorphism"
FT      48304
FT      /*tag= bd
FT      /standard_name= "Single nucleotide polymorphism"
FT      49755
FT      /*tag= be
FT      /standard_name= "Single nucleotide polymorphism"
FT      49992
FT      /*tag= bf
FT      /standard_name= "Single nucleotide polymorphism"
FT      50260
FT      /*tag= bg
FT      /standard_name= "Single nucleotide polymorphism"
FT      50559
FT      /*tag= bh
FT      /standard_name= "Single nucleotide polymorphism"
FT      50608
FT      /*tag= bi
FT      /standard_name= "Single nucleotide polymorphism"
FT      50704
FT      /*tag= bj
FT      /standard_name= "Single nucleotide polymorphism"

```

```

Query Match      1.5%; Score 46; DB 14; Length 99250;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      3071 CAGATTGTGCCCTGACCTCAGCTGGGCAAGAGCAAGACTC 3116
Db      16616 CAGATTGTGCCCTGACCTCAGCTGGGCAAGAGCAAGACTC 16571

```

```

RESULT 105
ADQ97818
ID      ADQ97818 standard; DNA; 109661 BP.
XX
AC      ADQ97818;
XX
DT      07-OCT-2004 (first entry)
XX
DE      Human cancer associated sequence HDL1-002, SEQ ID 795.
XX
KW      Cytostatic; Gene Therapy; cancer; leukemia; lymphoma; Human; de.
XX
OS      Homo sapiens.
XX
PN      W02004060304-A2.
XX
PD      22-JUL-2004.
XX
PF      22-DEC-2003; 2003WC-US041389.
XX
PR      27-DEC-2002; 2002US-00330773.
XX
PA      (SAGR-) SAGRES DISCOVERY INC.
XX
PI      Morris DW, Malandro MS;
XX
DR      WPI; 2004-543781/52.
XX
PT      New isolated cancer associated nucleic acids comprising at least 10
PT      contiguous nucleotides, useful for diagnosing, preventing and/or treating
PT      cancers such as leukemia and lymphoma.
XX
PS      Claim 1; SEQ ID NO 795; 1999p; English.
XX
CC      The present invention relates to cancer associated sequences (ADQ97025-

```

CC AD098004). The sequences are useful for the diagnosis, prevention and/or
CC treatment of cancer, such as leukemia and lymphoma. Note: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 109661 BP; 30680 A; 19371 C; 19986 G; 35350 T; 0 U; 4274 Other;

Query Match 1.5%; Score 46; DB 12; Length 109661;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2895 GGTGATCATCTGAGCCAGAGTTGAGACCAAGCTGGCCAAACAT 2940

Db 40304 GGTGATCATCTGAGCCAGAGTTGAGACCAAGCTGGCCAAACAT 40349

RESULT 106

ADG70447.1/c

Continuation (2 of 5) of ADG70447 from base 100001 (Human ANGE-CLLD8-CLLD7 hybrid gene.

WP Sequence split into 5 fragments LOCUS ADG70447 Accession Adg70447

WP Fragment Name Begin End

WP ADG70447_0 1 110000

WP ADG70447_1 100001 210000

WP ADG70447_2 200001 310000

WP ADG70447_3 300001 410000

WP ADG70447_4 400001 410846

Query Match 1.5%; Score 46; DB 10; Length 110000;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACATC 3116

Db 97599 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACATC 97554

RESULT 107

ABZ79565.1/c

Continuation (2 of 5) of ABZ79565 from base 100001 (CLLD8 and NY-REN-34 encoding DNA.)

WP Sequence split into 5 fragments LOCUS ABZ79565 Accession Abz79565

WP Fragment Name Begin End

WP ABZ79565_0 1 110000

WP ABZ79565_1 100001 210000

WP ABZ79565_2 200001 310000

WP ABZ79565_3 300001 410000

WP ABZ79565_4 400001 410846

Query Match 1.5%; Score 46; DB 10; Length 110000;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACATC 3116

Db 97599 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACATC 97554

RESULT 108

ADZ13631.0

WP Sequence split into 5 fragments LOCUS ADZ13631 Accession Adz13631

WP Fragment Name Begin End

WP ADZ13631_0 1 110000

WP ADZ13631_1 100001 210000

WP ADZ13631_2 200001 310000

WP ADZ13631_3 300001 410000

WP ADZ13631_4 400001 420555

ID ADZ13631 Standard; DNA; 420555 BP.

XX ADZ13631;

XX Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;
KW cytostatic; gene; de.
XX Homo sapiens.
XX WO2005031001-A2.
XX 07-APR-2005.
XX 23-SEP-2004; 2004WO-US031617.
XX 23-SEP-2003; 2003US-00669920.
XX (CHIR) CHIRON CORP.
XX Morris DW, Malandro MS,
XX WPI; 2005-273395/28.
XX Nucleic acid array useful for detecting cancer associated nucleic acid,
XX comprises two or more nucleic acid probes.
XX Disclosure; SEQ ID NO 1151; 198bp; English.
XX The invention relates to a nucleic acid array for detecting a cancer
XX associated (CA) nucleic acid, comprising two or more nucleic acid probes.
XX The invention also relates to a peptide array comprising two or more
XX isolated polypeptides encoded by a CA nucleic acid sequence, a compound
XX that binds to a polypeptide, an isolated antibody or its fragment which
XX binds to a polypeptide, which is prepared by immunizing a host animal
XX with a composition comprising the polypeptide or its antigen binding
XX fragment and collecting cells from the host expressing antibodies against
XX the antigen or its antigen binding fragment, a composition comprising the
XX antibody and a carrier, a method of screening for anticancer activity, a
XX method of detecting a CA nucleic acid, a method of inhibiting expression of a CA
XX method of treating cancer and a method of inhibiting expression of a CA
XX nucleic acid in a cell. The CA nucleic acids are useful for detecting CA
XX nucleic acid. The antibody is useful for detecting the presence or
XX absence of cancer cells in an individual which involves contacting cells
XX from the individual with the antibody and detecting a complex of a CA
XX protein from the cancer cells and the antibody, where the detection of
XX the complex correlates with the presence of cancer cells in the
XX individual. The composition is useful for inhibiting growth of cancer
XX cells in an individual or for delivering a therapeutic agent to cancer
XX cells in an individual. The invention is also useful for diagnosing
XX cancer, for treating cancer and for inhibiting expression of a CA gene in
XX a cell. This sequence represents human cancer-associated genomic DNA of
XX the invention.
XX Sequence 420555 BP; 131028A; 77271C; 78657G; 131031T; 0U; 25680Other;
SQ

Query Match 1.5%; Score 46; DB 14; Length 110000;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3077 TGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122

Db 50592 TGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 50637

RESULT 109

ADZ13620.0

WP Sequence split into 5 fragments LOCUS ADZ13620 Accession Adz13620

WP Fragment Name Begin End

WP ADZ13620_0 1 110000

WP ADZ13620_1 100001 210000

WP ADZ13620_2 200001 310000

WP ADZ13620_3 300001 410000

WP ADZ13620_4 400001 420555

ID ADZ13620 Standard; DNA; 420555 BP.

XX ADZ13620;

XX 16-JUN-2005 (first entry)
DT
XX Human cancer-associated genomic DNA #98.
DE
XX Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;
KM cytostatic; gene; ds.
XX Homo sapiens.
OS
XX W02005031001-A2.
PN
XX 07-APR-2005.
PD
XX 23-SEP-2004; 2004MO-US031617.
PF
XX 23-SEP-2003; 2003US-00669920.
PR
XX (CHIR) CHIRON CORP.
PA
XX Morris DW, Malandro MS,
PI
XX WPI; 2005-27395/28.
DR
XX Nucleic acid array useful for detecting cancer associated nucleic acid,
PT comprises two or more nucleic acid probes.
XX
XX Disclosure; SEQ ID NO 1140; 198pp; English.
PS
XX The invention relates to a nucleic acid array for detecting a cancer
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.
CC The invention also relates to a peptide array comprising two or more
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound
CC that binds to a polypeptide, an isolated antibody or its fragment which
CC binds to a polypeptide, which is prepared by immunizing a host animal
CC with a composition comprising the polypeptide or its antigen binding
CC fragment and collecting cells from the host expressing antibodies against
CC the antigen or its antigen binding fragment, a composition comprising the
CC antibody and a carrier, a method of screening for anticancer activity, a
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a
CC method of treating cancer and a method of inhibiting expression of a CA
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA
CC nucleic acids. The antibody is useful for detecting the presence or
CC absence of cancer cells in an individual which involves contacting cells
CC from the individual with the antibody and detecting a complex of a CA
CC protein from the cancer cells and the antibody, where the detection of
CC the complex correlates with the presence of cancer cells in the
CC individual. The composition is useful for inhibiting growth of cancer
CC cells in an individual or for delivering a therapeutic agent to cancer
CC cells in an individual. The invention is also useful for diagnosing
CC cancer, for treating cancer and for inhibiting expression of a CA gene in
CC a cell. This sequence represents human cancer-associated genomic DNA of
CC the invention.
XX
XX
SQ Sequence 420555 BP; 131028A; 77271C; 78657G; 131031T; 0U; 25680Other;
Query Match 1.5%; Score 46; DB 14; Length 110000;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3077 TGTGCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 3122
Db 50592 TGTGCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 50637

RESULT 110
AD213747_2/c
Continuation (3 of 4) of AD213747 from base 200001 (Human cancer-associated genomic DNA
WP Sequence split into 4 fragments LOCUS AD213747 Accession Ad213747
WP Fragment Name Begin End
WP AD213747_0 1 110000
WP AD213747_1 100001 210000
WP AD213747_2 200001 310000

WP AD213747_3 300001 365720
Query Match 1.5%; Score 46; DB 14; Length 110000;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3071 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 3116
Db 73741 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 73696

RESULT 111
AAD54480
ID AAD54480 standard; DNA; 117962 BP.
XX
XX AAD54480;
AC
XX 26-JUN-2003 (first entry)
DT
XX Human CIP DNA #1.
DE
XX Human, p53 pathway; chloride cotransporter interactor protein; CIP;
KM angiogenic disorder; cell proliferation disorder; apoptotic disorder;
KM breast cancer; gene therapy; ds.
XX
XX Homo sapiens.
OS
XX W0200299055-A2.
PN
XX 12-DEC-2002.
PD
XX 03-JUN-2002; 2002MO-US017473.
PF
XX 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 15-FEB-2002; 2002US-0357253P.
XX
XX (EXEL-) EXELIXIS INC.
PA
PI Friedland L, Plozman GD, Belvin M, Francis-Liang H, Li D, Funke RP;
XX WPI; 2003-175140/17.
DR
XX Identifying p53 pathway modulators for treating or diagnosing disorders
PT with defective p53 function e.g. breast cancer, by providing an assay
PT system having a purified cotransporter interactor protein (CIP)
PT polypeptide or nucleic acid.
XX
XX Disclosure; Page 38-101; 123pp; English.
PS
XX The invention relates to a method of identifying p53 pathway modulating
CC agent. The method involves contacting a test agent with an assay system
CC comprising a purified cation Cl- cotransporter interactor protein (CIP)
CC polypeptide or polynucleotide, or their functionally active fragment or
CC derivative. The method is useful for identifying modulators of the p53
CC pathway particularly for identifying agents for treating disorders (e.g.
CC breast cancer) associated with defective p53 function. Modulators of the
CC invention are useful as targets for novel therapeutics. CIP sequences are
CC useful as modifiers of the p53 pathway, and as therapeutic targets for
CC disorders associated with defective p53 function e.g. angiogenic,
CC apoptotic or cell proliferation disorders. The invention is useful in
CC gene therapy. The present sequence is human CIP DNA
XX
XX
SQ Sequence 117962 BP; 27840 A; 32096 C; 30624 G; 27402 T; 0 U; 0 Other;
Query Match 1.5%; Score 46; DB 8; Length 117962;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3071 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 3116
Db 18398 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 18443

RESULT 112
ACN43862
ID ACN43862 standard; DNA; 141463 BP.
XX
AC ACN43862;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human genomic sequence hCG21073.
XX
KW Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003073826-A2.
XX
PD 12-SEP-2003.
XX
PF 28-FEB-2003; 2003WO-US006235.
XX
PR 01-MAR-2002; 2002US-00087192.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW;
XX
DR WPI; 2003-328604/31.
XX
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
PS Claim 1; SEQ ID NO 22; Opp; English.
XX
CC The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published
XX
SQ Sequence 141463 BP; 40336 A; 28306 C; 29237 G; 43584 T; 0 U; 0 Other;
XX
Query Match 1.5%; Score 46; DB 11; Length 141463;
Best Local Similarity 100.0%; Pred. No. 9.2e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3071 CAAGTTGTGCGACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 3116
DB 73703 CAAGATTGTGCGACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 73748
XX
RESULT 113
ADC87620/C
ID ADC87620 standard; DNA; 144792 BP.
XX
AC ADC87620;
XX
DT 01-JAN-2004 (first entry)
XX
DE Human GPCR related polynucleotide SEQ ID NO:2073.
XX
KW ds; human; GPCR; guanosine triphosphate-binding protein coupled receptor;
KW gene therapy.
XX

OS Homo sapiens.
XX
PN EP1270724-A2.
XX
PD 02-JAN-2003.
XX
PF 18-JUN-2002; 2002EP-00013517.
XX
PR 18-JUN-2001; 2001JP-00246789.
XX
PA (NAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
XX
PA (ADSC-) CENT ADVANCED SCI & TECHNOLOGY INCUBATIO.
XX
PI Suwa M, Asai K, Akiyama Y, Aburatani H;
XX
DR WPI; 2003-315783/31.
XX
PT New polynucleotide, useful for preparing a composition for treating a
XX patient in need of increased or suppressed activity or expression of the
XX guanosine triphosphate-binding protein coupled receptor.
XX
PS Disclosure; SEQ ID NO 2073; 28pp; English.
XX
CC The invention relates to a novel polynucleotide encoding a guanosine
CC triphosphate-binding protein coupled receptor (GPCR). A polynucleotide of
CC the invention may have a use in gene therapy. The polynucleotide and
CC polypeptide are useful for preparing a composition for treating a patient
CC in need of increased or suppressed activity or expression of the
CC guanosine triphosphate-binding protein coupled receptor. The protein
CC sequences shown in ADC87618-ADC87623 represent polynucleotide sequences
XX related to the invention.
XX
SQ Sequence 144792 BP; 39827 A; 32142 C; 33413 G; 39310 T; 0 U; 100 Other;
XX
Query Match 1.5%; Score 46; DB 10; Length 144792;
Best Local Similarity 100.0%; Pred. No. 9.2e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3071 CAAGTTGTGCGACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 3116
DB 60793 CAAGATTGTGCGACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 60748
XX
RESULT 114
ADL13904/C
ID ADL13904 standard; DNA; 164772 BP.
XX
AC ADL13904;
XX
DT 06-MAY-2004 (first entry)
XX
DE Osteoarthritis-associated polymorphic nucleotide #436.
XX
KW ds; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;
KW joint space narrowing; osteophyte development; joint pain;
KW osteoarthritis; SNP; single nucleotide polymorphism.
XX
OS Homo sapiens.
XX
PN WO2003054166-A2.
XX
PD 03-JUL-2003.
XX
PF 19-DEC-2002; 2002WO-US041225.
XX
PR 20-DEC-2001; 2001US-0342603P.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Jones KA, Schaefer A;
XX
DR WPI; 2003-559141/52.
XX

PT Determining susceptibility of an individual to joint space narrowing.
 PT osteophyte development and/or joint pain comprises identifying whether
 PT the individual has at least one polymorphism in a polynucleotide encoding
 PT a protein.
 XX
 XX Disclosure; SEQ ID NO 436; 297pp; English.
 PS
 XX The invention relates to a method of determining susceptibility of an
 CC individual to joint space narrowing and/or osteophyte development and/or
 CC joint pain comprising identifying whether the individual has at least one
 CC polymorphism in a polynucleotide encoding at least one of the protein
 CC listed in the specification. The methods, composition and agent are
 CC useful for modulating the susceptibility of an individual to joint space
 CC narrowing and/or osteophyte development and/or joint pain that is
 CC associated with a disease, preferably osteoarthritis. The cell line and
 CC the non-human animal are useful for screening for an agent for diagnosing
 CC an individual having susceptibility to joint space narrowing and/or
 CC osteophyte development and/or joint pain. This sequence corresponds to
 CC the polynucleotide encoding a protein listed in the specification. (Note
 CC the sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences).
 CC XX
 SQ Sequence 164772 BP; 50645 A; 32137 C; 31960 G; 50022 T; 0 U; 8 Other;
 Query Match 1.5%; Score 46; DB 10; Length 164772;
 Best Local Similarity 100.0%; Pred. No. 9.2e-11;
 Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 QY 2895 GGATGATCACCTGAGGCGAGAGTTGAGACCGAGCTGGCCAAACAT 2940
 Db 111876 GGATGATCACCTGAGGCGAGAGTTGAGACCGAGCTGGCCAAACAT 111831
 RESULT 115
 ACN44262
 ID ACN44262 standard; DNA; 168821 BP.
 XX
 AC ACN44262;
 XX
 DT 18-NOV-2004 (first entry)
 XX
 DE Human genomic sequence hCG18035.
 XX
 KW Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
 OS Homo sapiens.
 XX
 PN W02003073826-A2.
 XX
 PD 12-SEP-2003.
 XX
 PF 28-FEB-2003; 2003WO-US006235.
 XX
 PR 01-MAR-2002; 2002US-00087192.
 XX
 PA (SAGR-) SAGRES DISCOVERY.
 XX
 PI Morris DW;
 DR WPI; 2003-328604/31.
 XX
 PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
 PT comprises a nucleotide sequence.
 XX
 PS Claim 1; SEQ ID NO 622; Opp; English.
 CC The present invention relates to novel DNA and protein sequences which
 CC are associated with carcinomas. The sequences are useful for: (i) for
 CC screening drug candidates; (ii) for screening of bioactive agent capable
 CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
 CC a bioactive agent capable of modulating the activity of CAP; (iv) for
 CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
 CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
 CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
 CC determining Carcinoma Associated (CA) gene copy number. In addition, the
 CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
 CC carcinoma including lymphoma. The present sequence is one such CA coding
 CC sequence. Note: This patent is an equivalent to basic patent
 CC US2002182586v1, for which no sequence data was published
 XX
 SQ Sequence 168821 BP, 39588 A; 43389 C; 45655 G; 40189 T; 0 U; 0 Other;
 Query Match 1.5%; Score 46; DB 11; Length 168821;
 Best Local Similarity 100.0%; Pred. No. 9.1e-11;
 Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 QY 2895 GGTGATTCACCTGAGGCCAGAGTTTCAGACCAAGCTTGCCCAACT 2940
 Db 161763 GGTGATTCACCTGAGGCCAGAGTTTCAGACCAAGCTTGCCCAACT 161808
 |||||
 RESULT 116
 ID ADL13935 standard; DNA; 177866 BP.
 XX ADL13935;
 AC ADL13935;
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DS Osteoarthritis-associated polymorphic nucleotide #467.
 XX
 KM ds: gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;
 KM joint space narrowing; osteocyte development; joint pain;
 KM osteoarthritis; SNP; single nucleotide polymorphism.
 XX
 OS Homo sapiens.
 OS
 PN MO2003054166-A2.
 PD 03-JUL-2003.
 PF 19-DEC-2002; 2002WO-US041225.
 PR 20-DEC-2001; 2001US-0342603P.
 XX
 PA (INCY-) INCYTE GENOMICS INC.
 PI Jones KA, Schafer A;
 DR WPI; 2003-559141/52.
 XX
 PT Determining susceptibility of an individual to joint space narrowing,
 PT osteocyte development and/or joint pain comprises identifying whether
 PT the individual has at least one polymorphism in a polynucleotide encoding
 PT a protein.
 XX
 PS Disclosure; SEQ ID NO 467; 297bp; English.
 CC The invention relates to a method of determining susceptibility of an
 CC individual to joint space narrowing and/or osteocyte development and/or
 CC joint pain comprising identifying whether the individual has at least one
 CC polymorphism in a polynucleotide encoding at least one of the protein
 CC listed in the specification. The methods, composition and agent are
 CC useful for modulating the susceptibility of an individual to joint space
 CC narrowing and/or osteocyte development and/or joint pain that is
 CC associated with a disease, preferably osteoarthritis. The cell line and
 CC the non-human animal are useful for screening for an agent for diagnosing
 CC an individual having susceptibility to joint space narrowing and/or
 CC osteocyte development and/or joint pain. This sequence corresponds to
 CC the polynucleotide encoding a protein listed in the specification. (Note:
 CC The sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences).
 XX

SEQ Sequence 177866 BP; 53227 A; 36632 C; 36825 G; 51154 T; 0 U; 28 Other;

Query Match 1.5%; Score 46; DB 10; Length 177866;
Best Local Similarity 100.0%; Pred. No. 9.1e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTCACCTGCACTCCAGCTGGGCAACAGAGACAGCTC 3116
DB 166193 CAAGATTGTCACCTGCACTCCAGCTGGGCAACAGAGACAGCTC 166238

RESULT 117
ADFG69677
ID ADF69677 standard; DNA; 181257 BP.

AC ADF69677;
XX
DT 11-MAR-2004 (first entry)
XX
DE Human SLC5A8 gene SEQ ID NO:2.
XX
KW human; SLC5A8; cell surface protein; cytostatic; gene therapy;
KW SLC5A8-associated cancer; colon cancer; breast cancer; thyroid cancer;
KW stomach cancer; cancer; chromosome 12; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2003104427-A2.
XX
PD 18-DEC-2003.
XX
PF 05-JUN-2003; 2003WO-US018239.
XX
PR 05-JUN-2002; 2002US-03866539.
XX
PA (UYCA-) UNIV CASE WESTERN RESERVE.
XX
PI Markowitz SD;
XX
DR WPI; 2004-062348/06.
XX
PT New SLC5A8 polypeptide, useful for detecting and treating SLC5A8-associated cancer, e.g. colon, breast, thyroid or stomach cancer.
XX
PS Claim 6; SEQ ID NO 2; 207pp; English.
XX
CC The present invention describes the human SLC5A8 protein (I), which is a cell surface protein. (I) has cytostatic activity, and can be used in gene therapy. (I) can be used in detecting and treating SLC5A8-associated cancer, e.g. colon cancer, breast cancer, thyroid cancer or stomach cancer. (I) is also useful in screening assays, predictive medicine and in diagnostic and prognostic assays. The human SLC5A8 gene is located on chromosome 12. The present sequence is used in the exemplification of the present invention.
XX
SQ Sequence 181257 BP; 53237 A; 35656 C; 35971 G; 56393 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 12; Length 181257;
Best Local Similarity 100.0%; Pred. No. 9.1e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACTCGAGGCCAGAGTTCCAGACCAAGCTTGCCCAACT 2940
DB 99600 GGTGATCACTCGAGGCCAGAGTTCCAGACCAAGCTTGCCCAACT 99645

RESULT 118
ABQ75562
ID ABQ75562 standard; DNA; 188888 BP.
XX
AC ABQ75562;
XX
DT 11-NOV-2002 (first entry)

XX
DE Human related CYP 27C1 clone RP11-30F3 SEQ ID NO:21.
XX
KW Cloning; characterization; human; cytochrome P450; CYP 27C1; cytostatic;
KW thymomimetic; antidiabetic; antiparathyroid; tuberculostatic; osteopathic;
KW dermatological; antileukemic; gene therapy; vaccine; Vitamin D; diabetes;
KW vitamin D metabolite deficiency; hyperparathyroidism; hypoparathyroidism;
KW medullary carcinoma; parietitis; sarcoidosis; tuberculosis; osteomalacia;
KW chronic renal disease; vitamin D dependent rickets; anticonvulsant;
KW fibrogenesis imperfecta ossium; osteitis fibrosa cystica; osteoporosis;
KW osteopoenia; osteosclerosis; renal osteodystrophy; rickets; steatorrhea;
KW glucocorticoid antagonism; idiopathic hypercalcaemia; tropical spine;
KW malabsorption syndrome; cholesterol steroid; lipid metabolic disorder;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO200264765-A2.
XX
PD 22-AUG-2002.
XX
PF 11-FEB-2002; 2002WO-CA000163.
XX
PR 09-FEB-2001; 2001US-0267410P.
XX
PA (CYTO-) CYTOCHROMA INC.
XX
PI Wieniewski J;
XX
DR WPI; 2002-657595/70.
XX
PT New nucleic acid molecules encoding cytochrome P450 proteins, human CYP 27C1 and a hybrid homologs from Xenopus laevis, useful for treating diseases related to vitamin D or vitamin D metabolite deficiency, e.g. parathyroidism and diabetes.
XX
PS Example 1; Fig 1A; 209pp; English.
XX
CC The present invention describes an isolated nucleic acid molecule (I) encoding human cytochrome P450, CYP 27C1, and a hybrid homologue from Xenopus laevis. (I) has thymomimetic, antidiabetic, cytostatic, antiparathyroid, tuberculostatic, osteopathic, dermatological and antileukemic activities, and can be used in gene therapy and in vaccines.
CC The nucleic acid molecules, proteins and methods from the present invention are useful for treating diseases related to vitamin D or vitamin D metabolite deficiency, e.g. hyper- and hypo-parathyroidism, CC pseudohypo-parathyroidism, secondary hyperparathyroidism, diabetes, CC medullary carcinoma, parietitis, sarcoidosis, tuberculosis, chronic renal disease, hypophosphatemic VDR, vitamin D dependent rickets, CC anticonvulsant treatment, fibrogenesis imperfecta ossium, osteitis fibrosa cystica, osteomalacia, osteoporosis, osteopoenia, osteosclerosis, CC renal osteodystrophy, rickets, glucocorticoid antagonism, idiopathic CC hypercalcaemia, malabsorption syndrome, steatorrhea, and tropical spine, CC or cholesterol, steroid and other lipid metabolic disorders. The present sequence represents a human related CYP 27C1 clone designated RP11-30F3, CC which is given in an example from the present invention
XX
SQ Sequence 188888 BP; 51055 A; 42661 C; 43560 G; 47708 T; 0 U; 3904 Other;

Query Match 1.5%; Score 46; DB 6; Length 188888;
Best Local Similarity 100.0%; Pred. No. 9.1e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACTCGAGGCCAGAGTTCCAGACCAAGCTTGCCCAACT 2940
DB 142425 GGTGATCACTCGAGGCCAGAGTTCCAGACCAAGCTTGCCCAACT 142470

RESULT 119
ADL13570/G
ID ADL13570 standard; DNA; 193672 BP.
XX
AC ADL13570;

XX 06-MAY-2004 (first entry)
XX Osteoarthritis-associated polymorphic nucleotide #102.
DE
XX
XX
XX day; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;
XX joint space narrowing; osteophyte development; joint pain;
XX osteoarthritis; SNP; single nucleotide polymorphism.
XX
XX Homo sapiens.
XX
XX WO2003054166-A2.
XX
XX 03-JUL-2003.
XX
XX 19-DEC-2002; 2002WO-US041225.
XX
XX 20-DEC-2001; 2001US-0342603P.
XX
XX (INCY-) INCYTE GENOMICS INC.
XX
XX Jones KA, Schafer A;
XX
XX WPI; 2003-559141/52.
XX
XX Determining susceptibility of an individual to joint space narrowing,
XX osteophyte development and/or joint pain comprises identifying whether
XX the individual has at least one polymorphism in a polymucleotide encoding
XX a protein.
XX
XX Disclosure; SEQ ID NO 102; 297bp; English.
XX
XX The invention relates to a method of determining susceptibility of an
XX individual to joint space narrowing and/or osteophyte development and/or
XX joint pain comprising identifying whether the individual has at least one
XX polymorphism in a polymucleotide encoding at least one of the protein
XX listed in the specification. The methods, composition and agent are
XX useful for modulating the susceptibility of an individual to joint space
XX narrowing and/or osteophyte development and/or joint pain that is
XX associated with a disease, preferably osteoarthritis. The cell line and
XX the non-human animal are useful for screening for an agent for diagnosing
XX an individual having susceptibility to joint space narrowing and/or
XX osteophyte development and/or joint pain. This sequence corresponds to
XX the polymucleotide encoding a protein listed in the specification. (Note:
XX The sequence data for this patent did not form part of the printed
XX specification but was obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences).
XX
XX Sequence 193672 BP; 43026 A; 54282 C; 51944 G; 43718 T; 0 U; 702 Other;
XX
XX
XX Query Match 1.5%; Score 46; DB 10; Length 193672;
XX Best Local Similarity 100.0%; Pred. No. 9.1e-11;
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 3071 CAAGATTGTGCGCACTGCACTCCAGCTTGCGCAACAGCAAGCAACTC 3116
XX ||||||||||||||||||||||||||||||||||||||||||||||||||||
XX Db 3015 CAAGATTGTGCGCACTGCACTCCAGCTTGCGCAACAGCAAGCAACTC 2970
XX
XX
XX RESULT 120
XX ACN44650
XX ID ACN44650 standard; DNA; 256157 BP.
XX
XX ACN44650;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG38672.
XX
XX Cyrostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX

PN WO2003073826-A2.
XX
XX 12-SEP-2003.
PD
XX
XX 28-FEB-2003; 2003WO-US006235.
PF
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 1204; 0bp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) as a biochip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published
XX
XX Sequence 256157 BP; 70370 A; 54568 C; 55511 G; 73304 T; 0 U; 2404 Other;
XX
XX
XX Query Match 1.5%; Score 46; DB 11; Length 256157;
XX Best Local Similarity 100.0%; Pred. No. 9e-11;
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 2895 GGTGGATCACCCTGAGCGCCAGAGTTGAGACCAAGCTTGCGCAACAT 2940
XX ||||||||||||||||||||||||||||||||||||||||||||||||||||
XX Db 192749 GTGGATCACCCTGAGCGCCAGAGTTGAGACCAAGCTTGCGCAACAT 192794
XX
XX
XX RESULT 121
XX ABD33570
XX ID ABD33570 standard; DNA; 256157 BP.
XX
XX ABD33570;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human cancer-associated (CA) gene HD07-114.
XX
XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;
XX day; cancer; cytosstatic.
XX
XX Homo sapiens.
XX
XX WO2004058146-A2.
XX
XX 15-JUL-2004.
XX
XX 15-DEC-2003; 2003WO-US040081.
XX
XX 17-DEC-2002; 2002US-00322281.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX
XX WPI; 2004-499109/47.
XX

XX Novel human cancer associated protein encoded within open reading frame
PT of cancer associated gene, useful as targets for diagnosing cancer.
XX
XX Claim 16; SEQ ID NO 776; 182pp; English.
XX
CC The invention relates to cancer-associated proteins (CAP) and the cancer-
CC associated (CA) nucleic acids encoding them. The invention also relates
CC to a method for treating cancers involving administering to a patient an
CC inhibitor of CAP, and a method of screening for anticancer activity in a
CC potential drug involving providing a cell that expresses a CA gene,
CC contacting a tissue sample derived from a cancer cell with an anticancer
CC drug candidate and monitoring the effect of the anticancer drug candidate
CC on expression of the CA gene. The CAP proteins are useful for detecting
CC cancer associated with expression of a CAP protein in a test cell sample
CC and for screening for a bioactive agent capable of modulating the
CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing
CC cancer, involving determining the expression of a CA nucleic acid in a
CC tissue. This sequence represents a human CA gene of the invention. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 256157 BP; 70370 A; 54568 C; 55511 G; 73304 T; 0 U; 2404 Other;
XX
Query Match 1.5%; Score 46; DB 13; Length 256157;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 2895 GGTGATACCTTGAGCCAGAGTTGAGACCAAGCTGCGCAACAT 2940
DB 192749 GGTGATACCTTGAGCCAGAGTTGAGACCAAGCTGCGCAACAT 192794
XX
RESULT 122
ACN44350
ID ACN44350 standard; DNA; 276276 BP.
XX
AC ACN44350;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human genomic sequence hCG17121.
XX
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003073826-A2.
XX
PD 12-SEP-2003.
XX
PF 28-FEB-2003; 2003WO-US006235.
XX
PR 01-MAR-2002; 2002US-00087192.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX
PI Morris DW;
XX
DR WPI; 2003-328604/31.
XX
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
PS Claim 1; SEQ ID NO 754; 0pp; English.
XX
CC The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published
XX
SQ Sequence 276276 BP; 68379 A; 69211 C; 66764 G; 71922 T; 0 U; 0 Other;
XX
Query Match 1.5%; Score 46; DB 11; Length 276276;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 2888 TGAGGCAAGTGTGATCACTTGAGGCCAGAGTTGAGACCAAGCTGG 2933
DB 212141 TGAGGCAAGTGTGATCACTTGAGGCCAGAGTTGAGACCAAGCTGG 212186
XX
RESULT 123
ADQ59440/C
ID ADQ59440 standard; DNA; 347814 BP.
XX
AC ADQ59440;
XX
DT 07-OCT-2004 (first entry)
XX
DE Human cancer-associated (CA) gene sequence SEQ ID NO.76.
XX
KM human; cancer-associated gene; cancer-associated protein; cytostatic;
KM gene therapy; vaccine; tyrosine kinase antagonist;
KM G-protein coupled receptor antagonist; cancer; lymphoma; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2004058288-A1.
XX
PD 15-JUL-2004.
XX
PF 15-DEC-2003; 2003WO-US040082.
XX
PR 17-DEC-2002; 2002US-00322696.
XX
PA (SAGR-) SAGRES DISCOVERY INC.
XX
PI Morris DW, Malandro MS;
XX
DR WPI; 2004-543349/52.
XX
P-PSDB; ADQ59442.
XX
PT New cancer-associated nucleic acid for diagnosing, preventing or treating
PT cancer (e.g. lymphoma) or for screening agents that may be used for
PT treating or preventing cancer.
XX
PS Claim 16; SEQ ID NO 76; 143pp; English.
XX
CC The present invention describes human cancer-associated (CA) nucleotide
CC sequences (II). Also described: (1) an expression vector comprising (I);
CC (2) a host cell comprising (I) or the expression vector; (3) a microarray
CC for detecting a CA nucleic acid; (4) an isolated polypeptide encoded
CC within an open reading frame of a CA sequence; (5) an isolated antibody,
CC or its antigen binding fragment, that binds to the above polypeptide; (6)
CC a hybridoma that produces the monoclonal antibody described above; (7) a
CC pharmaceutical composition comprising the antibody and a pharmaceutical
CC excipient; (8) a kit for detecting or diagnosing cancer cells, comprising
CC the above (monoclonal) antibody or polynucleotide that selectively
CC hybridises to any of the polynucleotide sequences mentioned above; (9)
CC methods for diagnosing cancer or for detecting the presence or absence of
CC cancer cells in an individual; (10) a method for inhibiting growth of
CC cancer cells in an individual; (11) a method for delivering a therapeutic
CC agent to cancer cells in an individual; (12) an electronic library
CC comprising the polynucleotide or polypeptide, or their fragments,

CC mentioned above; (13) a method of screening for anticancer activity; (14)
CC methods for detecting cancer associated with expression of a polypeptide
CC or the presence of the antibody in a test cell or serum sample; (15) a
CC method for screening for a bioactive agent capable of modulating the
CC activity of a CA protein encoded by the above nucleic acid molecule; and
CC (16) a method for treating cancers. (1) has cytoskeletal activity, and can
CC be used in gene therapy, in vaccines, as a tyrosine kinase antagonist,
CC and as a G-protein coupled receptor antagonist. The compositions and
CC methods of the present invention can be used for diagnosing, preventing
CC and treating cancer, especially lymphomas. They may also be used in
CC screening for agents that may be used for treating or preventing cancer.
CC The present sequence represents a human CA gene sequence, which is given
CC in the exemplification of the present invention. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 347814 BP, 109468 A, 63155 C, 63484 G, 111535 T, 0 U, 172 Other;
SQ

Query Match 1.5%; Score 46; DB 12; Length 347814;
Best Local Similarity 100.0%; Pred. No. 8.9e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3071 CAAGATTGTGCGCACTGCATCTCCAGCTGGGCAACAGCAAGCAAGCTC 3116
Db 261007 CAAGATTGTGCGCACTGCATCTCCAGCTGGGCAACAGCAAGCAAGCTC 260962

RESULT 124
AAS27638/c
ID AAS27638 standard; DNA, 145 BP.
XX
AC AAS27638;
XX
DT 07-NOV-2001 (first entry)
XX
DE DNA encoding novel signal transduction pathway protein, Seq ID 1298.
XX
XX Neuroprotective; cytoskeletal; dermatological; immunosuppressive; tumour;
KM antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer;
KM immune system disorder; rheumatoid arthritis; hepatitis C; blood disorder;
KM organ transplant rejection; infection; hepatitis C; Gaucher's disease;
KM sickle cell anaemia; hyperproliferative disorder; Parkinson's disease;
KM neurodegenerative disorder; Alzheimer's disease; renal disorder;
KM chromosomal abnormality; Down syndrome; ischaemia; renal disorder;
KM cardiovascular; respiratory; wound healing; endocrine; Addison's disease;
KM reproductive system; gastrointestinal; liver disorder; AIDS; ds;
KM acquired immune deficiency syndrome.

XX Homo sapiens.
OS
XX
PN WO200154733-A1.
PD
XX
XX 02-AUG-2001.
PF
XX 17-JAN-2001; 2001WO-US001312.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 06-SEP-2000; 2000US-0231242P.
PR 06-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232377P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236377P.
PR 29-SEP-2000; 2000US-0236378P.
PR 29-SEP-2000; 2000US-0236379P.
PR 29-SEP-2000; 2000US-0236380P.
PR 29-SEP-2000; 2000US-0236381P.
PR 29-SEP-2000; 2000US-0236382P.
PR 29-SEP-2000; 2000US-0236383P.
PR 29-SEP-2000; 2000US-0236384P.
PR 29-SEP-2000; 2000US-0236385P.
PR 29-SEP-2000; 2000US-0236386P.
PR 29-SEP-2000; 2000US-0236387P.
PR 29-SEP-2000; 2000US-0236388P.
PR 29-SEP-2000; 2000US-0236389P.
PR 29-SEP-2000; 2000US-0236390P.
PR 29-SEP-2000; 2000US-0236391P.
PR 29-SEP-2000; 2000US-0236392P.
PR 29-SEP-2000; 2000US-0236393P.
PR 29-SEP-2000; 2000US-0236394P.
PR 29-SEP-2000; 2000US-0236395P.
PR 29-SEP-2000; 2000US-0236396P.
PR 29-SEP-2000; 2000US-0236397P.
PR 29-SEP-2000; 2000US-0236398P.
PR 29-SEP-2000; 2000US-0236399P.
PR 29-SEP-2000; 2000US-0236400P.
PR 29-SEP-2000; 2000US-0236401P.
PR 29-SEP-2000; 2000US-0236402P.
PR 29-SEP-2000; 2000US-0236403P.
PR 29-SEP-2000; 2000US-0236404P.
PR 29-SEP-2000; 2000US-0236405P.
PR 29-SEP-2000; 2000US-0236406P.
PR 29-SEP-2000; 2000US-0236407P.
PR 29-SEP-2000; 2000US-0236408P.
PR 29-SEP-2000; 2000US-0236409P.
PR 29-SEP-2000; 2000US-0236410P.
PR 29-SEP-2000; 2000US-0236411P.
PR 29-SEP-2000; 2000US-0236412P.
PR 29-SEP-2000; 2000US-0236413P.
PR 29-SEP-2000; 2000US-0236414P.
PR 29-SEP-2000; 2000US-0236415P.
PR 29-SEP-2000; 2000US-0236416P.
PR 29-SEP-2000; 2000US-0236417P.
PR 29-SEP-2000; 2000US-0236418P.
PR 29-SEP-2000; 2000US-0236419P.
PR 29-SEP-2000; 2000US-0236420P.
PR 29-SEP-2000; 2000US-0236421P.
PR 29-SEP-2000; 2000US-0236422P.
PR 29-SEP-2000; 2000US-0236423P.
PR 29-SEP-2000; 2000US-0236424P.
PR 29-SEP-2000; 2000US-0236425P.
PR 29-SEP-2000; 2000US-0236426P.
PR 29-SEP-2000; 2000US-0236427P.
PR 29-SEP-2000; 2000US-0236428P.
PR 29-SEP-2000; 2000US-0236429P.
PR 29-SEP-2000; 2000US-0236430P.
PR 29-SEP-2000; 2000US-0236431P.
PR 29-SEP-2000; 2000US-0236432P.
PR 29-SEP-2000; 2000US-0236433P.
PR 29-SEP-2000; 2000US-0236434P.
PR 29-SEP-2000; 2000US-0236435P.
PR 29-SEP-2000; 2000US-0236436P.
PR 29-SEP-2000; 2000US-0236437P.
PR 29-SEP-2000; 2000US-0236438P.
PR 29-SEP-2000; 2000US-0236439P.
PR 29-SEP-2000; 2000US-0236440P.
PR 29-SEP-2000; 2000US-0236441P.
PR 29-SEP-2000; 2000US-0236442P.
PR 29-SEP-2000; 2000US-0236443P.
PR 29-SEP-2000; 2000US-0236444P.
PR 29-SEP-2000; 2000US-0236445P.
PR 29-SEP-2000; 2000US-0236446P.
PR 29-SEP-2000; 2000US-0236447P.
PR 29-SEP-2000; 2000US-0236448P.
PR 29-SEP-2000; 2000US-0236449P.
PR 29-SEP-2000; 2000US-0236450P.
PR 29-SEP-2000; 2000US-0236451P.
PR 29-SEP-2000; 2000US-0236452P.
PR 29-SEP-2000; 2000US-0236453P.
PR 29-SEP-2000; 2000US-0236454P.
PR 29-SEP-2000; 2000US-0236455P.
PR 29-SEP-2000; 2000US-0236456P.
PR 29-SEP-2000; 2000US-0236457P.
PR 29-SEP-2000; 2000US-0236458P.
PR 29-SEP-2000; 2000US-0236459P.
PR 29-SEP-2000; 2000US-0236460P.
PR 29-SEP-2000; 2000US-0236461P.
PR 29-SEP-2000; 2000US-0236462P.
PR 29-SEP-2000; 2000US-0236463P.
PR 29-SEP-2000; 2000US-0236464P.
PR 29-SEP-2000; 2000US-0236465P.
PR 29-SEP-2000; 2000US-0236466P.
PR 29-SEP-2000; 2000US-0236467P.
PR 29-SEP-2000; 2000US-0236468P.
PR 29-SEP-2000; 2000US-0236469P.
PR 29-SEP-2000; 2000US-0236470P.
PR 29-SEP-2000; 2000US-0236471P.
PR 29-SEP-2000; 2000US-0236472P.
PR 29-SEP-2000; 2000US-0236473P.
PR 29-SEP-2000; 2000US-0236474P.
PR 29-SEP-2000; 2000US-0236475P.
PR 29-SEP-2000; 2000US-0236476P.
PR 29-SEP-2000; 2000US-0236477P.
PR 29-SEP-2000; 2000US-0236478P.
PR 29-SEP-2000; 2000US-0236479P.
PR 29-SEP-2000; 2000US-0236480P.
PR 29-SEP-2000; 2000US-0236481P.
PR 29-SEP-2000; 2000US-0236482P.
PR 29-SEP-2000; 2000US-0236483P.
PR 29-SEP-2000; 2000US-0236484P.
PR 29-SEP-2000; 2000US-0236485P.
PR 29-SEP-2000; 2000US-0236486P.
PR 29-SEP-2000; 2000US-0236487P.
PR 29-SEP-2000; 2000US-0236488P.
PR 29-SEP-2000; 2000US-0236489P.
PR 29-SEP-2000; 2000US-0236490P.
PR 29-SEP-2000; 2000US-0236491P.
PR 29-SEP-2000; 2000US-0236492P.
PR 29-SEP-2000; 2000US-0236493P.
PR 29-SEP-2000; 2000US-0236494P.
PR 29-SEP-2000; 2000US-0236495P.
PR 29-SEP-2000; 2000US-0236496P.
PR 29-SEP-2000; 2000US-0236497P.
PR 29-SEP-2000; 2000US-0236498P.
PR 29-SEP-2000; 2000US-0236499P.
PR 29-SEP-2000; 2000US-0236500P.
PR 29-SEP-2000; 2000US-0236501P.
PR 29-SEP-2000; 2000US-0236502P.
PR 29-SEP-2000; 2000US-0236503P.
PR 29-SEP-2000; 2000US-0236504P.
PR 29-SEP-2000; 2000US-0236505P.
PR 29-SEP-2000; 2000US-0236506P.
PR 29-SEP-2000; 2000US-0236507P.
PR 29-SEP-2000; 2000US-0236508P.
PR 29-SEP-2000; 2000US-0236509P.
PR 29-SEP-2000; 2000US-0236510P.
PR 29-SEP-2000; 2000US-0236511P.
PR 29-SEP-2000; 2000US-0236512P.
PR 29-SEP-2000; 2000US-0236513P.
PR 29-SEP-2000; 2000US-0236514P.
PR 29-SEP-2000; 2000US-0236515P.
PR 29-SEP-2000; 2000US-0236516P.
PR 29-SEP-2000; 2000US-0236517P.
PR 29-SEP-2000; 2000US-0236518P.
PR 29-SEP-2000; 2000US-0236519P.
PR 29-SEP-2000; 2000US-0236520P.
PR 29-SEP-2000; 2000US-0236521P.
PR 29-SEP-2000; 2000US-0236522P.
PR 29-SEP-2000; 2000US-0236523P.
PR 29-SEP-2000; 2000US-0236524P.
PR 29-SEP-2000; 2000US-0236525P.
PR 29-SEP-2000; 2000US-0236526P.
PR 29-SEP-2000; 2000US-0236527P.
PR 29-SEP-2000; 2000US-0236528P.
PR 29-SEP-2000; 2000US-0236529P.
PR 29-SEP-2000; 2000US-0236530P.
PR 29-SEP-2000; 2000US-0236531P.
PR 29-SEP-2000; 2000US-0236532P.
PR 29-SEP-2000; 2000US-0236533P.
PR 29-SEP-2000; 2000US-0236534P.
PR 29-SEP-2000; 2000US-0236535P.
PR 29-SEP-2000; 2000US-0236536P.
PR 29-SEP-2000; 2000US-0236537P.
PR 29-SEP-2000; 2000US-0236538P.
PR 29-SEP-2000; 2000US-0236539P.
PR 29-SEP-2000; 2000US-0236540P.
PR 29-SEP-2000; 2000US-0236541P.
PR 29-SEP-2000; 2000US-0236542P.
PR 29-SEP-2000; 2000US-0236543P.
PR 29-SEP-2000; 2000US-0236544P.
PR 29-SEP-2000; 2000US-0236545P.
PR 29-SEP-2000; 2000US-0236546P.
PR 29-SEP-2000; 2000US-0236547P.
PR 29-SEP-2000; 2000US-0236548P.
PR 29-SEP-2000; 2000US-0236549P.
PR 29-SEP-2000; 2000US-0236550P.
PR 29-SEP-2000; 2000US-0236551P.
PR 29-SEP-2000; 2000US-0236552P.
PR 29-SEP-2000; 2000US-0236553P.
PR 29-SEP-2000; 2000US-0236554P.
PR 29-SEP-2000; 2000US-0236555P.
PR 29-SEP-2000; 2000US-0236556P.
PR 29-SEP-2000; 2000US-0236557P.
PR 29-SEP-2000; 2000US-0236558P.
PR 29-SEP-2000; 2000US-0236559P.
PR 29-SEP-2000; 2000US-0236560P.
PR 29-SEP-2000; 2000US-0236561P.
PR 29-SEP-2000; 2000US-0236562P.
PR 29-SEP-2000; 2000US-0236563P.
PR 29-SEP-2000; 2000US-0236564P.
PR 29-SEP-2000; 2000US-0236565P.
PR 29-SEP-2000; 2000US-0236566P.
PR 29-SEP-2000; 2000US-0236567P.
PR 29-SEP-2000; 2000US-0236568P.
PR 29-SEP-2000; 2000US-0236569P.
PR 29-SEP-2000; 2000US-0236570P.
PR 29-SEP-2000; 2000US-0236571P.
PR 29-SEP-2000; 2000US-0236572P.
PR 29-SEP-2000; 2000US-0236573P.
PR 29-SEP-2000; 2000US-0236574P.
PR 29-SEP-2000; 2000US-0236575P.
PR 29-SEP-2000; 2000US-0236576P.
PR 29-SEP-2000; 2000US-0236577P.
PR 29-SEP-2000; 2000US-0236578P.
PR 29-SEP-2000; 2000US-0236579P.
PR 29-SEP-2000; 2000US-0236580P.
PR 29-SEP-2000; 2000US-0236581P.
PR 29-SEP-2000; 2000US-0236582P.
PR 29-SEP-2000; 2000US-0236583P.
PR 29-SEP-2000; 2000US-0236584P.
PR 29-SEP-2000; 2000US-0236585P.
PR 29-SEP-2000; 2000US-0236586P.
PR 29-SEP-2000; 2000US-0236587P.
PR 29-SEP-2000; 2000US-0236588P.
PR 29-SEP-2000; 2000US-0236589P.
PR 29-SEP-2000; 2000US-0236590P.
PR 29-SEP-2000; 2000US-0236591P.
PR 29-SEP-2000; 2000US-0236592P.
PR 29-SEP-2000; 2000US-0236593P.
PR 29-SEP-2000; 2000US-0236594P.
PR 29-SEP-2000; 2000US-0236595P.
PR 29-SEP-2000; 2000US-0236596P.
PR 29-SEP-2000; 2000US-0236597P.
PR 29-SEP-2000; 2000US-0236598P.
PR 29-SEP-2000; 2000US-0236599P.
PR 29-SEP-2000; 2000US-0236600P.
PR 29-SEP-2000; 2000US-0236601P.
PR 29-SEP-2000; 2000US-0236602P.
PR 29-SEP-2000; 2000US-0236603P.
PR 29-SEP-2000; 2000US-0236604P.
PR 29-SEP-2000; 2000US-0236605P.
PR 29-SEP-2000; 2000US-0236606P.
PR 29-SEP-2000; 2000US-0236607P.
PR 29-SEP-2000; 2000US-0236608P.
PR 29-SEP-2000; 2000US-0236609P.
PR 29-SEP-2000; 2000US-0236610P.
PR 29-SEP-2000; 2000US-0236611P.
PR 29-SEP-2000; 2000US-0236612P.
PR 29-SEP-2000; 2000US-0236613P.
PR 29-SEP-2000; 2000US-0236614P.
PR 29-SEP-2000; 2000US-0236615P.
PR 29-SEP-2000; 2000US-0236616P.
PR 29-SEP-2000; 2000US-0236617P.
PR 29-SEP-2000; 2000US-0236618P.
PR 29-SEP-2000; 2000US-0236619P.
PR 29-SEP-2000; 2000US-0236620P.
PR 29-SEP-2000; 2000US-0236621P.
PR 29-SEP-2000; 2000US-0236622P.
PR 29-SEP-2000; 2000US-0236623P.
PR 29-SEP-2000; 2000US-0236624P.
PR 29-SEP-2000; 2000US-0236625P.
PR 29-SEP-2000; 2000US-0236626P.
PR 29-SEP-2000; 2000US-0236627P.
PR 29-SEP-2000; 2000US-0236628P.
PR 29-SEP-2000; 2000US-0236629P.
PR 29-SEP-2000; 2000US-0236630P.
PR 29-SEP-2000; 2000US-0236631P.
PR 29-SEP-2000; 2000US-0236632P.
PR 29-SEP-2000; 2000US-0236633P.
PR 29-SEP-2000; 2000US-0236634P.
PR 29-SEP-2000; 2000US-0236635P.
PR 29-SEP-2000; 2000US-0236636P.
PR 29-SEP-2000; 2000US-0236637P.
PR 29-SEP-2000; 2000US-0236638P.
PR 29-SEP-2000; 2000US-0236639P.
PR 29-SEP-2000; 2000US-0236640P.
PR 29-SEP-2000; 2000US-0236641P.
PR 29-SEP-2000; 2000US-0236642P.
PR 29-SEP-2000; 2000US-0236643P.
PR 29-SEP-2000; 2000US-0236644P.
PR 29-SEP-2000; 2000US-0236645P.
PR 29-SEP-2000; 2000US-0236646P.
PR 29-SEP-2000; 2000US-0236647P.
PR 29-SEP-2000; 2000US-0236648P.
PR 29-SEP-2000; 2000US-0236649P.
PR 29-SEP-2000; 2000US-0236650P.
PR 29-SEP-2000; 2000US-0236651P.
PR 29-SEP-2000; 2000US-0236652P.
PR 29-SEP-2000; 2000US-0236653P.
PR 29-SEP-2000; 2000US-0236654P.
PR 29-SEP-2000; 2000US-0236655P.
PR 29-SEP-2000; 2000US-0236656P.
PR 29-SEP-2000; 2000US-0236657P.
PR 29-SEP-2000; 2000US-0236658P.
PR 29-SEP-2000; 2000US-0236659P.
PR 29-SEP-2000; 2000US-0236660P.
PR 29-SEP-2000; 2000US-0236661P.
PR 29-SEP-2000; 2000US-0236662P.
PR 29-SEP-2000; 2000US-0236663P.
PR 29-SEP-2000; 2000US-0236664P.
PR 29-SEP-2000; 2000US-0236665P.
PR 29-SEP-2000; 2000US-0236666P.
PR 29-SEP-2000; 2000US-0236667P.
PR 29-SEP-2000; 2000US-0236668P.
PR 29-SEP-2000; 2000US-0236669P.
PR 29-SEP-2000; 2000US-0236670P.
PR 29-SEP-2000; 2000US-0236671P.
PR 29-SEP-2000; 2000US-0236672P.
PR 29-SEP-2000; 2000US-0236673P.
PR 29-SEP-2000; 2000US-0236674P.
PR 29-SEP-2000; 2000US-0236675P.
PR 29-SEP-2000; 2000US-0236676P.
PR 29-SEP-2000; 2000US-0236677P.
PR 29-SEP-2000; 2000US-0236678P.
PR 29-SEP-2000; 2000US-0236679P.
PR 29-SEP-2000; 2000US-0236680P.
PR 29-SEP-2000; 2000US-0236681P.
PR 29-SEP-2000; 2000US-0236682P.
PR 29-SEP-2000; 2000US-0236683P.
PR 29-SEP-2000; 2000US-0236684P.
PR 29-SEP-2000; 2000US-0236685P.
PR 29-SEP-2000;

PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0250392P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251859P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PA (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-465460/50.
DR
XX
XX
PT Novel polypeptides useful for diagnosing, treating, preventing and/or
PT prognosing disorders related to the proteins, including cancers, immune
PT disorders and neuronal disorders.
XX
XX
PS Claim 1, SEQ ID NO 1298; 880pp; English.
XX
CC The invention relates to novel isolated polypeptides (I), and
CC polynucleotides (II). (I), (II) and the antibody to (I) are useful for
CC diagnosing, preventing and treating diseases including immune system
CC disorders (e.g. congenital and acquired immunodeficiencies, autoimmune
CC disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ
CC transplant rejections and graft versus host disease, infectious diseases
CC (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and
CC other blood-related disorders (sickle cell anaemia), myeloproliferative
CC disorders, primary haematopoietic disorders, hyperproliferative disorders
CC (e.g. Gaucher's disease and cancer), neurodegenerative disorders (e.g.
CC Alzheimer's disease, Parkinson's disease), chromosomal abnormalities
CC (Down syndrome), ischaemic injury (e.g. stroke), renal disorders (e.g.
CC glomerulonephritis), cardiovascular disorders (e.g. arrhythmia),

CC respiratory disorders, dermatological disorders, in wound healing,
CC epithelial cell proliferation, endocrine disorders (e.g. Addison's
CC disease), reproductive system disorders, gastrointestinal disorder
CC (inflammatory disorders), liver disorders (cirrhosis), as stimulators of
CC B-cell responsiveness to pathogens, activators of T-cells, to induce
CC higher affinity antibodies, and as a means to induce tumour proliferation
CC in pathologies e.g. acquired immune deficiency syndrome (AIDS). AAS26976-
CC AAS27850 represent novel signal transduction pathway protein coding
CC sequences and PCR primers of the invention
SQ Sequence 145 BP; 13 A; 36 C; 21 G; 75 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.4e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3078 GTGCCACTGCACCTCCAGCTTGGGCAACAGCAAGACTCTGTCTC 3122
DB 120 GTGCCACTGCACCTCCAGCTTGGGCAACAGCAAGACTCTGTCTC 76
RESULT 125
AAK68506
ID AAK68506 standard; DNA; 145 BP.
XX
XX AAK68506;
AC
XX 06-NOV-2001 (first entry)
DT
XX
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:23318.
DE
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KM cyostatic; gene therapy; vaccine; metatactais; ds.
OS Homo sapiens.
XX
XX WO200157182-A2.
PN
XX
XX 09-AUG-2001.
PD
XX
XX 17-JAN-2001; 2001WO-US001354.
PF
XX
XX 31-JAN-2000; 2000US-01790628P.
PR 04-FEB-2000; 2000US-0180628P.
PR 04-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220693P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.

PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229345P.
PR 01-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 05-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 25-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.

PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251859P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
PI Rosen CA, Barash SC, Ruben SM;
PI
XX WPI; 2001-483426/52.
DR
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
PT
XX
XX
XX Disclosure; SEQ ID NO 23318; 3071pp + Sequence Listing; English.
PS
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
CC
XX
SQ Sequence 145 BP; 75 A; 21 C; 36 G; 13 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 3; 4e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3078 GTGGCACTGCATCTCCAGCTGGGCAACAGACAACTGTCTC 3122
DB 26 GTGGCACTGCATCTCCAGCTGGGCAACAGACAACTGTCTC 70

```
RESULT 126
AAK69250
ID AAK69250 standard; DNA; 145 BP.
XX
AC AAK69250;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24062.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227709P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 08-SEP-2000; 2000US-0231422P.
PR 08-SEP-2000; 2000US-0231423P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
```

```
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234937P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
```

PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 03-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX
PS Disclosure; SEQ ID NO 24062; 3071bp + Sequence Listing; English.

XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
CC represent sequences used in the exemplification of the present invention
XX
XX
XX Sequence 145 BP; 75 A; 21 C; 36 G; 13 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.4e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCACTCCAGCTTGAGCAAGACCAAGACTCTGTCTC 3122
Db 26 GTGCCACTGCACTCCAGCTTGAGCAAGACCAAGACTCTGTCTC 70

RESULT 127

ABK44042
ID ABR44042 standard; DNA; 145 BP.

AC ABR44042;

DT 05-JUN-2002 (first entry)

DE Genomic DNA encoding novel central nervous system protein #244.

XX Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;
XX hyperproliferative disorder; neoplasm; cardiovascular disorder;
XX cardiac arrest; cerebrovascular disorder; ischemia; angiodysplasia;
XX nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;
XX acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;
XX adenocarcinoma; reproductive system disorder; testicular feminization;
XX endocrine disorder; diabetes; cancer; leukemia; neovascularization;
XX respiratory disorder; renal disorder; kidney failure; blood disorder;
XX myocardial infarction; wound healing; cell proliferation; skin aging;
XX food additive; food preservative; gene therapy; gene; ds.

OS Homo sapiens.

XX
XX PN WO200155318-A2.

XX
XX PD 02-AUG-2001.

XX
XX PF 17-JAN-2001; 2001WO-US001332.

XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUL-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 11-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218230P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 14-AUG-2000; 2000US-0225799P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 06-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.

PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241211P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251036P.
PR 05-DEC-2000; 2000US-0251888P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251899P.
PR 08-DEC-2000; 2000US-0251909P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.

XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-581633/65.
XX
PT New isolated nucleic acid encoding a protein for diagnosing, preventing,
PT treating or ameliorating medical conditions and used as food additives or
PT preservatives.
XX
PS Disclosure; SEQ ID NO 1230; 837pp; English.
XX
XX
CC The invention describes an isolated nucleic acid molecule (I) encoding a
CC novel central nervous system protein. (I) and polypeptides (II) encoded
CC by (I) are used to treat a medical conditions and in diagnosis of a
CC pathological condition. Disorders which are diagnosed or treated include
CC autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative
CC disorders e.g. neoplasms of the breast or liver, cardiovascular disorders
CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia,
CC angiogenesis, nervous system disorders e.g. Alzheimer's disease and
CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses
CC e.g. Acquired Immunodeficiency virus (AIDS) and fungi, ocular disorders
CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,
CC adenocarcinomas and irritable bowel syndrome, reproductive system
CC disorders e.g. testicular feminisation, endocrine disorders e.g. diabetes
CC and pituitary dwarfism, cancers and disorders at the cellular level e.g.
CC leukaemia, disorders involving neovascularisation e.g. malignancies,
CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.
CC acute kidney failure and blood related disorders e.g. myocardial
CC infarction. The polypeptides can also be used to aid wound healing and
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to
CC maintain organs before transplantation, for supporting cell culture of
CC primary tissues, to regenerate tissues and in chemotaxis. The
CC polypeptides can also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content, lipid, protein,
CC carbohydrate, vitamins, minerals, cofactors and other nutritional

Query Match 1.4%; Score 45; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.4e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCACTCCAGCCTGGGCAACAGACCAAGACTCTGTCTC 3122
DB 26 GTGCCACTGCACTCCAGCCTGGGCAACAGACCAAGACTCTGTCTC 70

RESULT 128
ADB94441/C
ID ADB94441 standard; DNA; 145 BP.
XX
AC ADB94441;
XX
DT 04-DEC-2003 (first entry)
XX
DE Novel human protein DNA #50.
XX
XX
KW ds; gene; human; autoimmune disease; Parkinson's disease; silicosis;
KW gastrointestinal disease; atherosclerosis; haemophilia; thrombocytopenia;
KW immunosuppressive agent; adjuvant; enhance immune response;
KW higher affinity antibody induction;
KW increased serum immunoglobulin concentration.
XX
OS Homo sapiens.
XX
PN US2002168711-A1.
XX
PD 14-NOV-2002.
XX
PF 17-JAN-2001; 2001US-00764868.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 28-JUN-2000; 2000US-0214886P.
PR 07-JUL-2000; 2000US-0216647P.

CC sequence at least 90% identical to: a polypeptide fragment, domain,
CC epitope, or full-length protein of any one of 607 amino acid sequences
CC (1) described in the specification; a polypeptide fragment of (1), or the
CC encoded sequence variant in (ii), having biological activity; or a
CC variant, allelic variant, or a species homologue of (1). The polypeptides
CC and nucleic acid molecules are useful for detecting, preventing,
CC diagnosing, prognosticating, treating or ameliorating medical conditions
CC such as neural disorders, e.g. Alzheimer's disease, Parkinson's disease,
CC Huntington's chorea, amyotrophic lateral sclerosis or multiple sclerosis,
CC immune system disorders, e.g. diabetes, rheumatoid arthritis, systemic
CC lupus erythematosus, autoimmune thyroiditis or haemolytic anaemia,

Query Match 1.4%; Score 45; DB 12; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.4e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCATCTGACCTGGGCAACAGCAAGACTCTGTCTC 3122
DB 26 GTGGCACTGCATCTGACCTGGGCAACAGCAAGACTCTGTCTC 70

RESULT 130

ACH37117 ID ACH37117 standard; cDNA; 492 BP.

XX ACH37117;

DT 13-Oct-2003 (first entry)

XX Human endothelial cell cDNA #5250.

KM Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;

XX genome mapping; biodiversity; genetic disorder.

OS Homo sapiens.

PN US2003073623-A1.

XX 17-Apr-2003.

XX 30-Jul-2001; 2001US-00918995.

PR 30-Jul-2001; 2001US-00918995.

XX 30-Jul-2001; 2001US-00918995.

PA (DRMA/) DRMANAC R T.

PA (LABA/) LABAT I.

PA (STACH/) STACHE-CRAIN B.

PA (DICK/) DICKSON M C.

PA (JONE/) JONES L W.

PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;

XX WPI; 2003-615964/58.

XX Claim 1; SEQ ID NO 24329; 44pp; English.

CC The invention relates to an isolated polynucleotide comprising any one of
CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
CC determined by the technique of SBH (sequencing by hybridisation). Also
CC included is a purified polypeptide comprising a sequence corresponding to
CC a reading frame of the novel polynucleotide. The nucleic acid sequences
CC are useful in diagnostics as expressed sequence tags (EST) for
CC identifying expressed genes or for physical mapping of the human genome,
CC in forensics, in assessing biodiversity, or in identifying mutations
CC responsible for genetic disorders and other traits. The nucleotide
CC sequences are also useful as hybridisation probes, as oligomers for PCR,
CC for chromosome and gene mapping, in the recombinant production of
CC protein, or in generating antisense DNA or RNA. The purified polypeptide

CC is useful for generating antibodies specific for it. The present sequence
CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030073623

XX Sequence 492 BP; 121 A; 128 C; 137 G; 106 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 9; Length 492;
Best Local Similarity 100.0%; Pred. No. 3.3e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2888 TGAGGCAAGTGTGATCACTGAGGCCGAGGACTTGAGACCAAGCCTG 2932
DB 366 TGAGGCAAGTGTGATCACTGAGGCCGAGGACTTGAGACCAAGCCTG 410

RESULT 131

AAH13294/C ID AAH13294 standard; cDNA; 568 BP.

XX AAH13294;

DT 26-JUN-2001 (first entry)

XX Human cDNA clone (3'-primer) SEQ ID NO:10129.

KM Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

XX Homo sapiens.

PN EP1074617-A2.

XX 07-FEB-2001.

XX 28-Jul-2000; 2000EP-00116126.

XX 29-Jul-1999; 99JP-00248036.

XX 27-Aug-1999; 99JP-00300253.

XX 11-Jan-2000; 2000JP-00118776.

XX 02-May-2000; 2000JP-00183767.

XX 09-Jun-2000; 2000JP-00241899.

XX (HELI-) HELIX RES INST.

PI Oca T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI; 2001-318749/34.

XX Claim 3; SEQ ID NO 10129; 2537pp + Sequence listing; English.

CC The present invention describes primer sets for synthesizing 5602 full-
CC length cDNAs defined in the specification. Where a primer set comprises:
CC (a) an oligo-dT primer and an oligonucleotide complementary to the
CC complementary strand of a polynucleotide which comprises one of the 5602
CC nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in the
CC specification. The primer sets can be used in antisense therapy and in
CC gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by

CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH16742 represent human cDNA sequences; AAB92446 to AAB95893
CC represent human amino acid sequences; and AAH1629 to AAH1632 represent
CC oligonucleotides, all of which are used in the exemplification of the
CC present invention
CC
XX Sequence 568 BP; 139 A; 144 C; 119 G; 163 T; 0 U; 3 Other;
SQ
Query Match 1.4%; Score 45; DB 4; Length 568;
Best Local Similarity 100.0%; Pred. No. 3.3e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3078 GTGGCAGCTGCACTCGCTGGGCAACAGCAAGACTGTGCTC 3122
Db 47 GTGGCAGCTGCACTCGAGCTGGGCAACAGCAAGACTGTGCTC 3
RESULT 132
AEB33439
ID AEB33439 standard; DNA; 601 BP.
XX AEB33439;
AC
XX
XX
DT 08-SEP-2005 (first entry)
XX
XX Human DNA polymorphic region #1019.
DE
XX
XX SNP detection; diagnosis; non-insulin dependent diabetes; obesity;
KW antidiabetic; anorectic; endocrine disease; gastrointestinal disease;
KW metabolic disorder; nutritional disorder; single nucleotide polymorphism;
KW SNP; ds.
XX
XX Homo sapiens.
OS
XX US2005147987-A1.
PN
XX 07-JUL-2005.
PD
XX 19-JUL-2004; 2004US-00893315.
PF
XX 08-SEP-2000; 2000US-0231397P.
PR 10-SEP-2001; 2001US-00948947.
XX
XX (APPL-) APPLERA CORP NY.
PA
PI Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;
PI Naik A, Subramanian G, Woodage T;
XX WPI; 2005-511776/52.
DR
XX
XX New detection reagent capable of detecting 1, 100, 500, 1000 or 5000 or
PT more single nucleic acid polymorphisms, useful in identifying an
PT individual having or at risk of developing type II diabetes or obesity.
XX
XX Claim 13; SEQ ID NO 1202; 31pp; English.
XX
XX The invention relates to a detection reagent capable of detecting one or
CC more single nucleic acid polymorphisms. The invention also relates to
CC determining whether a trait is linked to one of the human chromosomes or
CC its sub-region, a computer readable medium having stored in it the SNP
CC relational information given in the specification, an isolated nucleic
CC acid molecule for detecting at least one SNP given in the specification
CC comprising at least about 12 contiguous nucleotides, genotyping at least
CC one SNP position given in the specification in a sample, identifying an
CC individual having or at risk of developing a disorder and a kit
CC comprising at least one container containing the detection reagent.
CC Determining whether a trait is linked to one of the human chromosomes or
CC its sub-region comprises determining whether the trait is linked to one
CC or more SNPs using the detection reagents. Genotyping at least one SNP
CC position given in the specification in a sample comprises contacting the
CC sample with a detection reagent that differentiates between alternative
CC alleles at at least one SNP position given in the specification, and

CC determining which allele is present at the at least one SNP position.
CC Identifying an individual having or at risk of developing a disorder
CC comprises genotyping at least one SNP given in the specification in a
CC nucleic acid sample from the individual. The disorder is type II diabetes
CC (non-insulin dependent diabetes) or obesity. The detection reagent is
CC useful in identifying an individual having or at risk of developing a
CC disorder, particularly type II diabetes or obesity. This sequence
CC represents a human DNA polymorphic region used in the scope of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification but was obtained in electronic format from
CC USPTO at seqdata.uspto.gov/sequence.html.
SQ Sequence 601 BP; 174 A; 133 C; 164 G; 129 T; 0 U; 1 Other;
Query Match 1.4%; Score 45; DB 14; Length 601;
Best Local Similarity 100.0%; Pred. No. 3.3e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2895 GTGGATCAGCTGAGGCCAGAGTTCCGAGACCAAGCTGGCCAA 2939
Db 202 GTGGATCAGCTGAGGCCAGAGTTCCGAGACCAAGCTGGCCAA 246
RESULT 133
AAK63029
ID AAK63029 standard; cDNA; 1664 BP.
XX AAK63029;
AC
XX
XX
DT 06-NOV-2001 (first entry)
XX
XX Human immune/haematopoietic antigen encoding cDNA SEQ ID NO:8089.
DE
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ss.
XX
XX Homo sapiens.
OS
XX WO200157182-A2.
FN
XX 09-AUG-2001.
PD
XX 17-JAN-2001; 2001WO-US001354.
PF
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225256P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.

DB 333 GAATCACTGAGCGAGGTTTCGAGACCAAGCTGCGCAATAG 377
RESULT 134
AAK6986
ID AAK6986 standard; DNA; 2219 BP.
XX
AC AAK6986;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24698.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytoskeletal; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PE 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225477P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 22-AUG-2000; 2000US-0227108P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232387P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236357P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246522P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.

PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM,
XX
XX WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 24698; 3071bp + Sequence listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
XX Sequence 2219 BP; 633 A; 508 C; 519 G; 559 T; 0 U; 0 Other;
SQ
Query Match 1.4%; Score 45; DB 4; Length 2219;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2888 TGAAGCAGGTGATCAGCTGAGCCAGAGTTTCAGACCAAGCCTG 2932
Db 1966 TGAAGCAGGTGATCAGCTGAGCCAGAGTTTCAGACCAAGCCTG 2010
RESULT 135
AAK69885
ID AAK69885 standard; DNA; 2219 BP.
XX
AC AAK69885;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24697.
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytoskeletal; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN W0200157182-A2.
XX
PD 09-AUG-2001.

XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-018650P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 14-AUG-2000; 2000US-0220564P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 01-SEP-2000; 2000US-0229346P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234937P.
PR 26-SEP-2000; 2000US-0234988P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.

```

PT Nucleic acids encoding human immune/haematopoietic antigen polypeptides;
FR useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Disclosure; SEQ ID NO 24697; 3071pp + Sequence listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (II) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87994 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 2219 BP; 633 A; 508 C; 519 G; 559 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 4; Length 2219;
Best Local Similarity 100.0%; Pred. No. 3..le-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2888 TGAGGCGGTGGATCACCTTGAGGCCGAAGTTGCAGACCAAGCCTG 2932
DB 1966 TGAGGCGGTGGATCACCTTGAGGCCGAAGTTGCAGACCAAGCCTG 2010
RESULT 136
AAK6256/c
ID AAK86256 standard; DNA; 2219 BP.
XX
AC AAK86256;
DT 07-NOV-2001 (first entry)
DX Human immune/haematopoietic antigen genomic sequence SFG ID NO:41068.
DE Human immune/haematopoietic; immune/haematopoietic antigen; cancer;
XX cytotactic; gene therapy; vaccine; metastasis; dc.
KW Homo sapiens.
OS WO200157182-A2.
PN 09-AUG-2001.
PD 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217486P.
PR 14-JUL-2000; 2000US-0218280P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.

```


KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX Homo sapiens.
XX EPI074617-A2.
XX 07-FEB-2001.
XX 28-JUL-2000; 2000EP-00116126.
XX 29-JUL-1999; 99JP-00248036.
PR 27-AUG-1999; 99JP-00300253.
PR 11-JUN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX (HELI-) HELIX RES INST.
XX Ota T, Iecgaal T, Nishikawa T, Hayaashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX WPI; 2001-318749/34.
XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-
PT length cDNAs defined in the specification, and for the detection and/or
PT diagnosis of the abnormality of the proteins encoded by the full-length
PT cDNAs.
XX Claim 8; SEQ ID NO 18165; 2537pp + Sequence listing; English.
XX The present invention describes primer sets for synthesizing 5602 full-
CC length cDNAs defined in the specification. Where a primer set comprises:
CC (a) an oligo-dT primer and an oligonucleotide complementary to the
CC complementary strand of a polynucleotide which comprises one of the 5602
CC nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in the
CC specification. The primer sets can be used in antisense therapy and in
CC gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent
CC oligonucleotides, all of which are used in the exemplification of the
CC present invention
XX Sequence 3977 BP; 1063 A; 888 C; 987 G; 1039 T; 0 U; 0 Other;
SQ
Query Match 1.4%; Score 45; DB 4; Length 3977;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3078 GTGCGACTGCACTCCAGCTGGGCAACAGAGCAAGACTCTGTCTC 3122
DB 3931 GTGCGACTGCACTCCAGCTGGGCAACAGAGCAAGACTCTGTCTC 3975
RESULT 140
ID AAK69446/C
XX AAK69446 strand; DNA; 4513 BP.
AC AAK69446;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24258.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX Homo sapiens.
XX WO200157182-A2.
XX 09-AUG-2001.
XX 17-JAN-2001; 2001WO-US001354.
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229503P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0232081P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.

PR 21-SEP-2000; 2000US-0234274P.
 PR 25-SEP-2000; 2000US-0234997P.
 PR 25-SEP-2000; 2000US-0234998P.
 PR 26-SEP-2000; 2000US-0235484P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 13-OCT-2000; 2000US-0239937P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241221P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.
 PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246528P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246609P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.
 PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249246P.
 PR 17-NOV-2000; 2000US-0249255P.
 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0256719P.
 PR 08-DEC-2000; 2000US-0251866P.
 PR 08-DEC-2000; 2000US-0251866P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.

PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 FI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-483426/52.
 XX
 PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 XT useful for preventing, diagnosing and/or treating cancers and metastasis.
 PS Disclosure; SEQ ID NO 24258; 3071pp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 4513 BP; 897 A; 1168 C; 1278 G; 1170 T; 0 U; 0 Other;
 Query Match 1.4%; Score 45; DB 4; Length 4513;
 Best Local Similarity 100.0%; Pred. No. 3e-10; Index 0; Gaps 0;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3073 AGATTGTCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTCT 3117
 Db 2386 AGATTGTCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTCT 2342
 RESULT 141
 AAL03041/c
 ID AAL03041 standard; DNA; 6565 BP.
 AC AAL03041;
 XX
 DT 21-NOV-2001 (first entry)
 XX
 DE Human reproductive system related antigen DNA SEQ ID NO: 5729.
 KM Human; reproductive system related antigen; reproductive system disorder;
 XX cancer; gene therapy; ds.
 OS Homo sapiens.
 XX
 PN MO200155320-A2.
 XX
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001MO-US001339.
 XX
 PR 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 24-FEB-2000; 2000US-0184664P.
 PR 02-MAR-2000; 2000US-0186350P.
 PR 16-MAR-2000; 2000US-0189874P.
 PR 17-MAR-2000; 2000US-0190076P.
 PR 18-APR-2000; 2000US-0198123P.
 PR 19-MAY-2000; 2000US-0205515P.
 PR 07-JUN-2000; 2000US-0209467P.

PR	30-JUN-2000	2000US-02114886P
PR	07-JUL-2000	2000US-02116135P
PR	07-JUL-2000	2000US-0216647P
PR	07-JUL-2000	2000US-0216880P
PR	11-JUL-2000	2000US-0217487P
PR	11-JUL-2000	2000US-0217496P
PR	14-JUL-2000	2000US-0218280P
PR	26-JUL-2000	2000US-0220963P
PR	26-JUL-2000	2000US-0220964P
PR	14-AUG-2000	2000US-02205418P
PR	14-AUG-2000	2000US-0225268P
PR	14-AUG-2000	2000US-0225270P
PR	14-AUG-2000	2000US-0225447P
PR	14-AUG-2000	2000US-0225757P
PR	14-AUG-2000	2000US-0225758P
PR	14-AUG-2000	2000US-0225759P
PR	18-AUG-2000	2000US-0226279P
PR	22-AUG-2000	2000US-0226661P
PR	22-AUG-2000	2000US-0226688P
PR	22-AUG-2000	2000US-0227182P
PR	23-AUG-2000	2000US-0227090P
PR	30-AUG-2000	2000US-0228924P
PR	01-SEP-2000	2000US-0229287P
PR	01-SEP-2000	2000US-0229333P
PR	01-SEP-2000	2000US-0229343P
PR	01-SEP-2000	2000US-0229345P
PR	05-SEP-2000	2000US-0229509P
PR	05-SEP-2000	2000US-0229513P
PR	06-SEP-2000	2000US-0230437P
PR	06-SEP-2000	2000US-0230448P
PR	08-SEP-2000	2000US-0231242P
PR	08-SEP-2000	2000US-0231243P
PR	08-SEP-2000	2000US-0231244P
PR	08-SEP-2000	2000US-0231413P
PR	08-SEP-2000	2000US-0231414P
PR	08-SEP-2000	2000US-0232080P
PR	08-SEP-2000	2000US-0232081P
PR	12-SEP-2000	2000US-0231968P
PR	14-SEP-2000	2000US-0233063P
PR	14-SEP-2000	2000US-0233064P
PR	14-SEP-2000	2000US-0233065P
PR	14-SEP-2000	2000US-0233398P
PR	14-SEP-2000	2000US-0233429P
PR	14-SEP-2000	2000US-0234048P
PR	21-SEP-2000	2000US-0234223P
PR	21-SEP-2000	2000US-0234274P
PR	25-SEP-2000	2000US-0234977P
PR	25-SEP-2000	2000US-0234988P
PR	25-SEP-2000	2000US-0235484P
PR	27-SEP-2000	2000US-0235834P
PR	29-SEP-2000	2000US-0235836P
PR	29-SEP-2000	2000US-0236327P
PR	29-SEP-2000	2000US-0236376P
PR	29-SEP-2000	2000US-0236368P
PR	29-SEP-2000	2000US-0236369P
PR	29-SEP-2000	2000US-0236370P
PR	02-OCT-2000	2000US-0236802P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239935P
PR	13-OCT-2000	2000US-0239937P
PR	20-OCT-2000	2000US-0240960P
PR	20-OCT-2000	2000US-0241785P
PR	20-OCT-2000	2000US-0241785P

PR	20-OCT-2000	2000US-0241786P.
PR	20-OCT-2000	2000US-0241787P.
PR	20-OCT-2000	2000US-0241808P.
PR	20-OCT-2000	2000US-0241809P.
PR	20-OCT-2000	2000US-0241826P.
PR	01-NOV-2000	2000US-0244617P.
PR	08-NOV-2000	2000US-0246474P.
PR	08-NOV-2000	2000US-0246475P.
PR	08-NOV-2000	2000US-0246476P.
PR	08-NOV-2000	2000US-0246477P.
PR	08-NOV-2000	2000US-0246478P.
PR	08-NOV-2000	2000US-0246523P.
PR	08-NOV-2000	2000US-0246524P.
PR	08-NOV-2000	2000US-0246525P.
PR	08-NOV-2000	2000US-0246526P.
PR	08-NOV-2000	2000US-0246527P.
PR	08-NOV-2000	2000US-0246528P.
PR	08-NOV-2000	2000US-0246529P.
PR	08-NOV-2000	2000US-0246602P.
PR	08-NOV-2000	2000US-0246610P.
PR	08-NOV-2000	2000US-0246611P.
PR	08-NOV-2000	2000US-0246613P.
PR	17-NOV-2000	2000US-0249207P.
PR	17-NOV-2000	2000US-0249208P.
PR	17-NOV-2000	2000US-0249209P.
PR	17-NOV-2000	2000US-0249210P.
PR	17-NOV-2000	2000US-0249211P.
PR	17-NOV-2000	2000US-0249212P.
PR	17-NOV-2000	2000US-0249213P.
PR	17-NOV-2000	2000US-0249214P.
PR	17-NOV-2000	2000US-0249215P.
PR	17-NOV-2000	2000US-0249216P.
PR	17-NOV-2000	2000US-0249217P.
PR	17-NOV-2000	2000US-0249218P.
PR	17-NOV-2000	2000US-0249244P.
PR	17-NOV-2000	2000US-0249245P.
PR	17-NOV-2000	2000US-0249246P.
PR	17-NOV-2000	2000US-0249265P.
PR	17-NOV-2000	2000US-0249297P.
PR	17-NOV-2000	2000US-0249299P.
PR	17-NOV-2000	2000US-0249300P.
PR	01-DEC-2000	2000US-0250160P.
PR	01-DEC-2000	2000US-0250391P.
PR	05-DEC-2000	2000US-0251030P.
PR	05-DEC-2000	2000US-0251988P.
PR	05-DEC-2000	2000US-0256719P.
PR	06-DEC-2000	2000US-0251479P.
PR	08-DEC-2000	2000US-0251856P.
PR	08-DEC-2000	2000US-0251868P.
PR	08-DEC-2000	2000US-0251869P.
PR	08-DEC-2000	2000US-0251899P.
PR	08-DEC-2000	2000US-0251990P.
PR	11-DEC-2000	2000US-0254097P.
PR	05-JAN-2001	2001US-0259678P.
XX		
PA	(HUMA-)	HUMAN GENOME SCI INC.
PI	Rosen CA,	Barash SC, Ruben SM;
XX		
DR	WPI	; 2001-465570/50.
XX		
PT	Isolated nucleic acid molecule encoding a reproductive system antigen is used in preventing, treating or ameliorating a medical condition.	
XX		
ES	Disclosure	; SEQ ID NO 5729; 1297bp + Sequence Listing; English.
XX		
CC	The present invention provides the protein and coding sequences of a number of human reproductive system related antigens. These can be used in the prevention and treatment of reproductive system disorders, including cancer. The present sequence is a genomic sequence encoding a protein of the invention	
CC		
CC		
XX	Sequence 6566 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;	

Query Match 1.4%; Score 45; DB 4; Length 6565;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGGCATGCACTTCACCTGGGCAACAGCAAGCAAGTCTGTCTC 3122
Db 5140 GTGGCATGCACTTCACCTGGGCAACAGCAAGCAAGTCTGTCTC 5096

RESULT 142

AA103042/C
ID AA103042 standard; DNA; 6565 BP.

AC AA103042;

XX 21-NOV-2001 (first entry)

XX Human reproductive system related antigen DNA SEQ ID NO: 5730.

KM Human; reproductive system related antigen; reproductive system disorder;
cancer; gene therapy; ds.

XX Homo sapiens.

PN W020015320-A2.

PD 02-AUG-2001.

XX 17-JAN-2001; 2001MO-US001339.

XX 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0189874P.

PR 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205515P.

PR 07-JUN-2000; 2000US-0209467P.

PR 28-JUN-2000; 2000US-0214886P.

PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-0216647P.

PR 07-JUL-2000; 2000US-0216880P.

PR 11-JUL-2000; 2000US-0217487P.

PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.

PR 14-AUG-2000; 2000US-0224519P.

PR 14-AUG-2000; 2000US-0225213P.

PR 14-AUG-2000; 2000US-0225214P.

PR 14-AUG-2000; 2000US-0225267P.

PR 14-AUG-2000; 2000US-0225268P.

PR 14-AUG-2000; 2000US-0225447P.

PR 14-AUG-2000; 2000US-0225447P.

PR 14-AUG-2000; 2000US-0225757P.

PR 14-AUG-2000; 2000US-0225758P.

PR 14-AUG-2000; 2000US-0225759P.

PR 18-AUG-2000; 2000US-0226279P.

PR 22-AUG-2000; 2000US-0226681P.

PR 22-AUG-2000; 2000US-0226686P.

PR 22-AUG-2000; 2000US-0227182P.

PR 23-AUG-2000; 2000US-0227009P.

PR 30-AUG-2000; 2000US-0228924P.

PR 01-SEP-2000; 2000US-0229287P.

PR 01-SEP-2000; 2000US-0229343P.

PR 01-SEP-2000; 2000US-0229344P.

PR 05-SEP-2000; 2000US-0229509P.

PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.

PR 06-SEP-2000; 2000US-0230438P.

PR 08-SEP-2000; 2000US-0231242P.

PR 08-SEP-2000; 2000US-0231243P.

PR 08-SEP-2000; 2000US-0231244P.

PR 08-SEP-2000; 2000US-0231413P.

PR 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.

PR 12-SEP-2000; 2000US-0231968P.

PR 14-SEP-2000; 2000US-0232397P.

PR 14-SEP-2000; 2000US-0232398P.

PR 14-SEP-2000; 2000US-0232399P.

PR 14-SEP-2000; 2000US-0232400P.

PR 14-SEP-2000; 2000US-0232401P.

PR 14-SEP-2000; 2000US-0233063P.

PR 14-SEP-2000; 2000US-0233064P.

PR 14-SEP-2000; 2000US-0233065P.

PR 21-SEP-2000; 2000US-0234223P.

PR 21-SEP-2000; 2000US-0234274P.

PR 25-SEP-2000; 2000US-0234997P.

PR 25-SEP-2000; 2000US-0234998P.

PR 26-SEP-2000; 2000US-0235484P.

PR 27-SEP-2000; 2000US-0235834P.

PR 27-SEP-2000; 2000US-0235836P.

PR 29-SEP-2000; 2000US-0236327P.

PR 29-SEP-2000; 2000US-0236367P.

PR 29-SEP-2000; 2000US-0236368P.

PR 29-SEP-2000; 2000US-0236369P.

PR 29-SEP-2000; 2000US-0236370P.

PR 02-OCT-2000; 2000US-0236802P.

PR 02-OCT-2000; 2000US-0237037P.

PR 02-OCT-2000; 2000US-0237038P.

PR 02-OCT-2000; 2000US-0237039P.

PR 02-OCT-2000; 2000US-0237040P.

PR 13-OCT-2000; 2000US-0239935P.

PR 13-OCT-2000; 2000US-0239937P.

PR 20-OCT-2000; 2000US-0240960P.

PR 20-OCT-2000; 2000US-0241221P.

PR 20-OCT-2000; 2000US-0241785P.

PR 20-OCT-2000; 2000US-0241786P.

PR 20-OCT-2000; 2000US-0241787P.

PR 20-OCT-2000; 2000US-0241808P.

PR 20-OCT-2000; 2000US-0241809P.

PR 20-OCT-2000; 2000US-0241826P.

PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.

PR 08-NOV-2000; 2000US-0246475P.

PR 08-NOV-2000; 2000US-0246476P.

PR 08-NOV-2000; 2000US-0246477P.

PR 08-NOV-2000; 2000US-0246478P.

PR 08-NOV-2000; 2000US-0246523P.

PR 08-NOV-2000; 2000US-0246524P.

PR 08-NOV-2000; 2000US-0246525P.

PR 08-NOV-2000; 2000US-0246526P.

PR 08-NOV-2000; 2000US-0246527P.

PR 08-NOV-2000; 2000US-0246528P.

PR 08-NOV-2000; 2000US-0246532P.

PR 08-NOV-2000; 2000US-0246609P.

PR 08-NOV-2000; 2000US-0246610P.

PR 08-NOV-2000; 2000US-0246611P.

PR 08-NOV-2000; 2000US-0246613P.

PR 17-NOV-2000; 2000US-0249207P.

PR 17-NOV-2000; 2000US-0249208P.

PR 17-NOV-2000; 2000US-0249209P.

PR 17-NOV-2000; 2000US-0249210P.

PR 17-NOV-2000; 2000US-0249211P.

PR 17-NOV-2000; 2000US-0249212P.

PR 17-NOV-2000; 2000US-0249213P.

PR 17-NOV-2000; 2000US-0249214P.

PR 17-NOV-2000; 2000US-0249215P.

PR 17-NOV-2000; 2000US-0249216P.

PR 17-NOV-2000; 2000US-0249217P.

PR	17-NOV-2000;	2000US-0249218P.	
PR	17-NOV-2000;	2000US-0249244P.	
PR	17-NOV-2000;	2000US-0249245P.	
PR	17-NOV-2000;	2000US-0249264P.	
PR	17-NOV-2000;	2000US-0249265P.	
PR	17-NOV-2000;	2000US-0249297P.	
PR	17-NOV-2000;	2000US-0249299P.	
PR	17-NOV-2000;	2000US-0249300P.	
PR	01-DEC-2000;	2000US-0250160P.	
PR	01-DEC-2000;	2000US-0250391P.	
PR	05-DEC-2000;	2000US-0251030P.	
PR	05-DEC-2000;	2000US-0251988P.	
PR	05-DEC-2000;	2000US-0256719P.	
PR	06-DEC-2000;	2000US-0251479P.	
PR	08-DEC-2000;	2000US-0251856P.	
PR	08-DEC-2000;	2000US-0251868P.	
PR	08-DEC-2000;	2000US-0251869P.	
PR	08-DEC-2000;	2000US-0251983P.	
PR	08-DEC-2000;	2000US-0251990P.	
PR	11-DEC-2000;	2000US-0254097P.	
PR	05-JAN-2001;	2001US-0259678P.	
XX			
PA	(HUMA-)	HUMAN GENOME SCI INC.	
XX			
P1	Rosen CA,	Barash SC, Ruben SM;	
XX			
DR	WPI;	2001-465570/50.	
XX			
PT	Isolated nucleic acid molecule encoding a reproductive system antigen is		
PT	used in preventing, treating or ameliorating a medical condition.		
XX			
PS	Disclosure; SEQ ID NO 5730;	1297pp + Sequence Listing; English.	
XX			
CC	The present invention provides the protein and coding sequences of a		
CC	number of human reproductive system related antigens. These can be used		
CC	in the prevention and treatment of reproductive system disorders,		
CC	including cancer. The present sequence is a genomic sequence encoding a		
CC	protein of the invention		
XX			
SO	Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;		
Qy	Query Match	1.4%; Score 45; DB 4; Length 6565;	
	Best Local Similarity	100.0%; Pred. No. 3e-10;	
	Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	3078 GTGCCACTGCACCTCCAGCCTGGGCAACGAGACAGACTCTGTCTC 3122		
	5140 GTGCCACTGCACCTCCAGCCTGGGCAACGAGACAGACTCTGTCTC 5096		
RESULT 143			
ABL97378/c			
ID	ABL97378 standard; DNA; 6565 BP.		
XX			
AC	ABL97378;		
XX			
DT	21-JUN-2002 (first entry)		
DE			
XX	Human testicular antigen encoding DNA fragment SEQ ID NO: 2030.		
KW	Human; testicular antigen; testes; cancer; metastasis; immune disorder;		
KW	reproductive system disorder; urinary system disorder; gene therapy;		
KW	cardiovascular disorder; respiratory disorder; neurological disorder;		
KM	gastrointestinal disease; infection; cytostatic; gene; db.		
XX			
OS	Homo sapiens.		
PN	MO200155317-A2.		
XX			
PD	02-AUG-2001.		
XX			
PF	17-JAN-2001; 2001WO-US001329.		
XX			

PR 02-OCT-2000; 2000US-0237037P.
XX 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-024617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249300P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249265P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0251989P.
PR 06-DEC-2000; 2000US-025179P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483232/52.
XX
PT Nucleic acid encoding 973 human testicular antigen polypeptides, useful
XX for preventing, diagnosing and/or treating testicular cancer.

PS Disclosure; SEQ ID NO 2030; 766pp; English.
XX
XX The present invention provides the protein and coding sequences of 973
CC human testicular antigens, and fragments of their genomic sequences. The
CC sequences can be used in the treatment of cardiovascular, urinary system,
CC reproductive system, immune, respiratory, neurological and
CC gastrointestinal disorders, infections, and particularly cancer,
CC especially testicular cancers. The present sequence is a DNA encoding a
XX protein fragment of the invention
SQ Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 4; Length 6565;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3078 GTGGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
DB 5140 GTGGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 5096
RESULT 144
ABL97377/C
ID ABL97377 standard; DNA; 6565 BP.
XX
AC ABL97377;
XX
DT 21-JUN-2002 (first entry)
XX
DE Human testicular antigen encoding DNA fragment SEQ ID NO: 2029.
XX
XX Human; testicular antigen; testes; cancer; metastasis; immune disorder;
XX reproductive system disorder; urinary system disorder; gene therapy;
XX cardiovascular disorder; respiratory disorder; neurological disorder;
XX gastrointestinal disease; infection; cytostatic; gene; ds.
XX
OS Homo sapiens.
XX
XX WO200155317-A2.
PN
XX
PD 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001329.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 14-AUG-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.

PR	18-AUG-2000	2000US-02257559
PR	18-AUG-2000	2000US-02262799
PR	12-AUG-2000	2000US-0226681P
PR	22-AUG-2000	2000US-0226688P
PR	22-AUG-2000	2000US-0227182P
PR	23-AUG-2000	2000US-0227009P
PR	30-AUG-2000	2000US-0228924P
PR	01-SEP-2000	2000US-0229287P
PR	01-SEP-2000	2000US-0229343P
PR	01-SEP-2000	2000US-0229344P
PR	01-SEP-2000	2000US-0229345P
PR	05-SEP-2000	2000US-0229505P
PR	05-SEP-2000	2000US-0229513P
PR	06-SEP-2000	2000US-0230437P
PR	06-SEP-2000	2000US-0230438P
PR	08-SEP-2000	2000US-0231242P
PR	08-SEP-2000	2000US-0231243P
PR	08-SEP-2000	2000US-0231343P
PR	08-SEP-2000	2000US-0231344P
PR	08-SEP-2000	2000US-0231413P
PR	08-SEP-2000	2000US-0231414P
PR	14-SEP-2000	2000US-02322397P
PR	14-SEP-2000	2000US-0232398P
PR	14-SEP-2000	2000US-0232400P
PR	14-SEP-2000	2000US-0232401P
PR	14-SEP-2000	2000US-0233063P
PR	14-SEP-2000	2000US-0233064P
PR	14-SEP-2000	2000US-0233065P
PR	21-SEP-2000	2000US-0234223P
PR	21-SEP-2000	2000US-0235563P
PR	21-SEP-2000	2000US-0236327P
PR	22-SEP-2000	2000US-0237038P
PR	22-SEP-2000	2000US-0237039P
PR	22-SEP-2000	2000US-0237040P
PR	13-OCT-2000	2000US-02399353P
PR	13-OCT-2000	2000US-0239937P
PR	20-OCT-2000	2000US-0241221P
PR	20-OCT-2000	2000US-0241221P
PR	20-OCT-2000	2000US-0241865P
PR	20-OCT-2000	2000US-0241786P
PR	08-NOV-2000	2000US-0246475P
PR	08-NOV-2000	2000US-0246475P
PR	08-NOV-2000	2000US-0246477P
PR	08-NOV-2000	2000US-0246478P
PR	08-NOV-2000	2000US-0246523P
PR	08-NOV-2000	2000US-0246524P
PR	08-NOV-2000	2000US-0246525P
PR	08-NOV-2000	2000US-0246526P
PR	08-NOV-2000	2000US-0246527P
PR	08-NOV-2000	2000US-0246528P
PR	08-NOV-2000	2000US-0246532P
PR	08-NOV-2000	2000US-0246609P
PR	08-NOV-2000	2000US-0246610P

XX		08-NOV-2000; 2000US-0246611P.
PR	08-NOV-2000; 2000US-0246613P.	
PR	17-NOV-2000; 2000US-0249207P.	
PR	17-NOV-2000; 2000US-0249208P.	
PR	17-NOV-2000; 2000US-0249209P.	
PR	17-NOV-2000; 2000US-0249210P.	
PR	17-NOV-2000; 2000US-0249211P.	
PR	17-NOV-2000; 2000US-0249212P.	
PR	17-NOV-2000; 2000US-0249213P.	
PR	17-NOV-2000; 2000US-0249214P.	
PR	17-NOV-2000; 2000US-0249215P.	
PR	17-NOV-2000; 2000US-0249216P.	
PR	17-NOV-2000; 2000US-0249217P.	
PR	17-NOV-2000; 2000US-0249218P.	
PR	17-NOV-2000; 2000US-0249244P.	
PR	17-NOV-2000; 2000US-0249245P.	
PR	17-NOV-2000; 2000US-0249264P.	
PR	17-NOV-2000; 2000US-0249265P.	
PR	17-NOV-2000; 2000US-0249297P.	
PR	17-NOV-2000; 2000US-0249299P.	
PR	17-NOV-2000; 2000US-0249300P.	
PR	01-DEC-2000; 2000US-0250160P.	
PR	01-DEC-2000; 2000US-0250391P.	
PR	05-DEC-2000; 2000US-0251030P.	
PR	05-DEC-2000; 2000US-0251988P.	
PR	05-DEC-2000; 2000US-0251719P.	
PR	06-DEC-2000; 2000US-0251479P.	
PR	08-DEC-2000; 2000US-0251856P.	
PR	08-DEC-2000; 2000US-0251868P.	
PR	08-DEC-2000; 2000US-0251869P.	
PR	08-DEC-2000; 2000US-0251983P.	
PR	08-DEC-2000; 2000US-0251990P.	
PR	11-DEC-2000; 2000US-0254097P.	
PR	05-JAN-2001; 2001US-0259678P.	
XX	(HUMA-) HUMAN GENOME SCI INC.	
PA		
PI	Rosen CA, Barash SC, Ruben SM;	
DR	WPI: 2001-483232/52.	
XX		
PT	Nucleic acids encoding 973 human testicular antigen polypeptides, useful	
XX	for preventing, diagnosing and/or treating testicular cancer.	
PS	Disclosure; SEQ ID NO 2029; 766P; English.	
XX		
CC	The present invention provides the protein and coding sequences of 973	
CC	human testicular antigens, and fragments of their genomic sequences. The	
CC	sequences can be used in the treatment of cardiovascular, urinary system,	
CC	reproductive system, immune, respiratory, neurological and	
CC	gastrointestinal disorders, infections, and particularly cancer.	
CC	especially testicular cancers. The present sequence is a DNA encoding a	
CC	protein fragment of the invention	
SQ	Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;	
Query March	1.4%; Score 45; DB 4; Length 6565;	
Best Local Similarity	100.0%; Pred. No. 3e-10; Indels 0; Gaps 0;	
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Oy	3078 GTGCACATGCACTCCAGCGTGGGCAAGAGAAGACTGTCTC 3122	
Db	5140 GTGCACATGCACTCCAGCGTGGGCAAGAGAAGACTGTCTC 5096	
RESULT 145		
ID	AAX23521 standard; DNA; 16595 BP.	
AC	AAX23521;	
XX		
DT	17-JUN-1999 (first entry)	
XX		

DE Human kidney aminopeptidase P genomic DNA fragment 5.
XX Aminopeptidase; human; Amp; gene therapy; treatment; Amp-deficiency;
XX prenatal diagnosis; angiodema; antihypertensive agent; atherosclerosis;
KM arterial stenosis; industrial protein feed; malabsorption syndrome;
KM proteinaceous waste degradation; additive; immunohistochemistry; ss.
XX
OS Homo sapiens.
XX
PN WO9911799-A2.
XX
PD 11-MAR-1999.
XX
PF 02-SEP-1998; 98WO-US018426.
XX
PR 02-SEP-1997; 97US-0057854P.
XX
PA (MED1-) MEDICAL COLLEGE GEORGIA RES INST.
XX
PI Ryan JW, Sprinkle TJC, Venema RC;
XX
DR WPI; 1999-205193/17.
XX
PT Nucleic acid encoding human aminopeptidase P.
XX
PS Claim 13; Page 192-201; 201pp; English.
XX
CC This invention describes the isolation of a novel human aminopeptidase P
CC (Amp). This protein is used to produce recombinant Amp and can be used
CC for gene therapy for treating Amp-deficiency conditions. Its fragments
CC are used as primers and probes to identify patients with homozygous and
CC heterozygous Amp deficiency, including prenatal diagnosis (patients
CC defective in Amp are at risk of developing angiodema if treated with
CC angiotensin-converting enzyme inhibitors), also as antisense inhibitors
CC in cases of excessive Amp expression. The product of the invention is
CC also used to identify Amp-expressing sequences in other animals and to
CC generate transgenic animals, and comparisons of genomic sequences are
CC used to detect mutations. Amp inhibitors are potentially useful as
CC antihypertensive agents and to prevent or treat arterial (re)stenosis or
CC atherosclerosis. The structure of Amp is used to design synthetic
CC substrates, e.g. for use in Amp assays. Amp, which hydrolyzes N-terminal
CC imido bonds, can be used to degrade industrial protein feeds to free
CC amino acids, to degrade proteinaceous wastes, as additives in enzyme
CC formulations used to treat malabsorption syndrome and for studying its
CC biological role. Antibodies against Amp are used in immunohistochemical
CC methods to study Amp distribution
XX
SQ Sequence 16595 BP; 4429 A; 4145 C; 4168 G; 3853 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 2; Length 16595;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3078 GTGCACCTGCCTCAGCTGCTGGCAAGACCAAGACTCTCTC 3122
Db 4301 GTGCACCTGCCTCAGCTGCTGGCAAGACCAAGACTCTCTC 4345
RESULT 146
AAS36670
ID AAS36670 standard; DNA; 17581 BP.
XX
XX AAS36670;
XX
XX 17-DEC-2001 (first entry)
XX
XX Human cardiovascular system antigen genomic DNA SEQ ID No 2170.
XX
XX Cardiovascular system antigen; human; mouse; rabbit; goat; horse; cat;
KM chicken; sheep; immunosuppressive; antiarthritic; vasotropic; dog;
KM antineumatic; antiproliferative; cytostatic; cardiant; neuroprotective;
KM cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer;
KM ophthalmological; vulnerrary; gene therapy; autoimmune disease; neoplasm;

KM hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
KM cerebrovascular disorder; nervous system disorder; bacterial infection;
KM fungal infection; viral infection; ocular disorder; endocrine disorder;
KM gastrointestinal disorder; renal disorder; respiratory disorder;
KM wound healing; skin aging; organ transplantation; tissue regeneration;
KM anti-infertility.
XX
OS Homo sapiens.
XX
PN WO200155321-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001340.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180638P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217486P.
PR 14-JUL-2000; 2000US-0218230P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.

XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acid into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK7694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX SQ Sequence 17581 BP; 4762 A; 3663 C; 4018 G; 5138 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 4; Length 17581;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 2898 GGATGACCTGAGGCCGAGGATTCGAGACCAAGCTGCCCAACTAG 2942
DB 4841 GGATGACCTGAGGCCGAGGATTCGAGACCAAGCTGCCCAACTAG 4885

RESULT 148
ADE47364
ID ADE47364 standard; DNA; 17581 BP.
XX ADE47364;
XX 29-JAN-2004 (first entry)
XX
DB Human cardiovascular system related genomic DNA #930.
XX
XX Human; cardiovascular system related polypeptide; cancer;
KW proliferative disorder; foetal abnormality; developmental abnormality;
KW haematopoietic disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW inflammation; allergy; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
KW cardiovascular disorder; angiodysplasia; kidney disorder;
KW gastrointestinal disorder; pregnancy-related disorder;
KW endocrine disorder; gene; ds.
XX
OS Homo sapiens.
XX
XX US2003059908-A1.
XX
XX 27-MAR-2003.
XX
XX 07-MAR-2002; 2002US-00091504.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.

PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229345P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234998P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236357P.
PR 29-SEP-2000; 2000US-0236358P.
PR 29-SEP-2000; 2000US-0236359P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249255P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PR 17-JAN-2001; 2001US-00764869.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM, Barash SC;
PI
DR WPI; 2003-743766/70.
XX
XX
PT New cardiovascular system related polynucleotides and polypeptides,
PT useful for preventing, treating, or ameliorating a medical condition,
PT such as cancer of cardiovascular tissues and cancer metastases.
XX
XX
PS Claim 1; SEQ ID NO 2170; 262pp; English.
XX
XX The invention relates to human cardiovascular system related polypeptides
XX and the polynucleotides encoding them. The polypeptides, polynucleotides
XX and antibodies to the polypeptides are useful for diagnosing a
XX pathological condition or a susceptibility to a pathological condition,
XX for preventing, treating, or ameliorating a medical condition, such as
XX cancer of cardiovascular system tissues, proliferative disorders, foetal
XX and developmental abnormalities, haematopoietic disorders, diseases of
XX the immune system, AIDS, autoimmune diseases (e.g., Rheumatoid
XX arthritis), inflammation, allergies, neurological disorders (e.g.,
XX Alzheimer's disease, Parkinson's disease), cognitive disorders,
XX schizophrenia, asthma, skin disorders (e.g., psoriasis), sepsis,

CC diabetes, atherosclerosis, cardiovascular disorders, angiogenic
CC disorders, kidney disorders, gastrointestinal disorders, pregnancy-
CC related disorders, endocrine disorders and infections. The nucleic acids
CC are also useful for chromosome identification, radiation hybrid mapping
CC or long-range restriction mapping. The polypeptides and polynucleotides
CC may also be used as food additives or preservatives to increase or
CC decrease storage capabilities, fat content or other nutritional
CC components. This sequence represents human cardiovascular system related
CC genomic DNA of the invention.
XX
SQ Sequence 17581 BP; 4762 A; 3663 C; 4018 G; 5138 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 10; Length 17581;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2898 GGATCACCTGAGCCGAGATTGAGACGACCTGGCCAAATAG 2942
DB 4841 GGATCACCTGAGCCGAGATTGAGACGACCTGGCCAAATAG 4885
RESULT 149
ADJ08782
ID ADJ08782 standard; DNA; 17581 BP.
XX
AC ADJ08782;
XX
DT 04-NOV-2004 (first entry)
XX
DE Human cardiovascular system associated polypeptide-related DNA SeqId2170.
XX
XX autoimmune disease; rheumatoid arthritis; hyperproliferative disorder;
XX breast neoplasms; liver neoplasia; cardiovascular disorder;
XX cardiac arrest; cerebrovascular disorder; cerebral ischaemia;
XX angiogenesis; nervous system disorder; Alzheimer's disease; infection;
XX ocular disorder; corneal infection; wound healing;
XX epithelial cell proliferation; skin aging; sunburn;
XX organ transplantation; cell culture; tissue regeneration; chemotaxis;
XX food additive; preservative; cardiovascular system associated antigen;
XX nuclear factor kappaB; NFkappaB; promoter element; human; ds.
OS Homo sapiens.
XX
XX US2004005575-A1.
PN
XX
PD 08-JAN-2004.
XX
XX
PF 26-AUG-2002; 2002US-00227577.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218293P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.

CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep), for
CC example autoimmune diseases such as rheumatoid arthritis,
CC hyperproliferative disorders, for example neoplasms of the breast or
CC liver, cardiovascular disorders, for example cardiac arrest.

Query Match 1.4%; Score 45; DB 13; Length 17581;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2898 GGATCAGCTGAGGCGAGAGTTGAGACCAAGCTGGCCACATAG 2942
Db 4841 GGATCAGCTGAGGCGAGAGTTGAGACCAAGCTGGCCACATAG 4885

RESULT 150

AAS36812
ID AAS36812 standard; DNA; 17946 BP.

AC AAS36812;

DT 17-DEC-2001 (first entry)

DE Human cardiovascular system antigen genomic DNA SEQ ID No 2312.

XX
XX Cardiovascular system antigen; human; mouse; rabbit; goat; horse; cat;
XX chicken; sheep; immunosuppressive; antiarthritic; vasotropic; dog;
XX antineumatic; antiproliferative; cytostatic; cardiant; neuroprotective;
XX cerebroprotective; nocrotic; antibacterial; virocidic; fungicide; cancer;
XX ophthalmological; vlnetary; gene therapy; autoimmune disease; neoplasm;
XX hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
XX cerebrovascular disorder; nervous system disorder; bacterial infection;
XX fungal infection; viral infection; ocular disorder; endocrine disorder;
XX gastrointestinal disorder; renal disorder; respiratory disorder;
XX wound healing; skin aging; organ transplantation; tissue regeneration;
XX anti-infertility.

XX Homo sapiens.

OS
XX WC020155321-A2.

PN
XX 02-AUG-2001.

PD
XX 17-JAN-2001; 2001WO-US001340.

XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.

PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236328P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 29-SEP-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.

PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0254779P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX WPT; 2001-451930/48.
XX
XX New cardiovascular system related polynucleotides and polypeptides,
PT useful for diagnosing, treating and/or preventing disorders of the
PT cardiovascular system.
XX
XX Claim 1; SEQ ID NO 2312; 674bp; English.
XX
XX Sequences AA35741-AA36942 represent genomic DNA molecules, which encode
CC the cardiovascular system antigen polypeptides of the invention.
CC Cardiovascular system antigens and their associated polynucleotides are
CC useful in the diagnosis, treatment and prevention of various types of
CC disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs,
CC chickens or sheep. A pathological condition can be determined by
CC detecting the presence or absence of a mutation in a cardiovascular
CC system antigen polynucleotide. The treatable disorders include autoimmune
CC diseases such as rheumatoid arthritis, hyperproliferative disorders such
CC as neoplasms of the breast or liver, cardiovascular disorders such as
CC cardiac arrest, cerebrovascular disorders such as cerebral ischaemia,
CC nervous system disorders such as Alzheimer's disease, infections caused
CC by bacteria, viruses and fungi, ocular disorders such as corneal
CC infection, endocrine disorders such as premature labour and infertility,
CC gastrointestinal disorders such as Crohn's disease, renal disorders such
CC as glomerulonephritis and respiratory disorders such as asthma and
CC pleurisy. The polypeptides can also be used to aid wound healing, to
CC prevent skin aging due to sunburn, to maintain organs before
CC transplantation, to regenerate tissues and in chemotaxis. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WFO
CC at ftp.wipo.int/pub/published_pct_sequences
XX

Query Match 1.4%; Score 45; DB 4; Length 17946;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2898 CGATCAGCTGAGGCCAGAGTTCCAGACACACCTCGGCCCAATATG 2942
DB 7806 CGATCAGCTGAGGCCAGAGTTCCAGACACACCTCGGCCCAATATG 7850
RESULT 151
ID ABA15608 standard; DNA; 17946 BP.
XX
XX ABA15608;
AC
XX
DT 23-JAN-2002 (first entry)
XX
XX Human nervous system related polynucleotide SEQ ID NO 7939.
DE
XX Human; nocotropic; neuroprotective; cytosolic; dermatological; virocidic;
XX immunosuppressive; anti-inflamatory; anti-HIV; antibacterial; vulnecary;
XX antiparkinsonian; antichilling; antianemic; antiarthritic; cancer;
XX antineumatic; hepatotropic; cerebroprotective; antiinflammatory;
XX antidiabetic; antidiabetic; antilicer; anticonvulsant; antifungal;
XX antiparasitic; cardiant; immune disorder; cardiovascular disorder;
XX neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
XX Homo sapiens.
XX
XX WO200159063-A2.
XX
PD 16-AUG-2001.
XX
PE 17-JAN-2001; 2001WO-US001334.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 14-JUL-2000; 2000US-0217496P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225266P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
XX 22-AUG-2000; 2000US-0226686P.
XX 22-AUG-2000; 2000US-0227182P.
XX 23-AUG-2000; 2000US-02277009P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.

DE Human cardiovascular system related genomic DNA #1072.
XX
KW Human; cardiovascular system related polypeptide; cancer;
KW proliferative disorder; foetal abnormality; developmental abnormality;
KW haematopoietic disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW inflammation; allergy; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
KW cardiovascular disorder; angiotensin disorder; kidney disorder;
KW gastrointestinal disorder; pregnancy-related disorder;
KW endocrine disorder; gene; ds.
XX
OS Homo sapiens.
XX
PN US2003059908-A1.
XX
PD 27-MAR-2003.
XX
PF 07-MAR-2002; 2002US-00091504.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0218299P.
PR 14-JUL-2000; 2000US-0218299P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225477P.
PR 14-AUG-2000; 2000US-0225702P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226281P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.

PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 25-SEP-2000; 2000US-0234999P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236337P.
PR 29-SEP-2000; 2000US-0236357P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.

PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246603P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250319P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.

PR 05-JAN-2001; 2001US-0259677P.
PR 17-JAN-2001; 2001US-0076486P.
PR 07-MAR-2002; 2002US-00091504.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Ruben SM, Barash SC;
XX WPI; 2004-081713/08.
XX
XX
PT New cardiovascular system-related nucleic acid molecule, useful for
PT diagnosing, preventing or treating diseases of the cardiovascular system,
PT and in chromosome mapping, drug screening or in pharmacogenomics.
XX
PS Disclosure; SEQ ID NO 2312; 262pp; English.
XX
XX
CC The invention relates to an isolated nucleic acid molecule encoding a
CC human cardiovascular system associated polypeptide (or antigens), or its
CC fragment. Also included recombinant vectors, recombinant host cells, an
CC isolated human cardiovascular system associated polypeptide (including
CC its fragment, allelic variant, species homologue or epitope), an isolated
CC antibody that binds specifically to a human cardiovascular system
CC associated polypeptide, diagnosing a pathological condition or
CC susceptibility to a pathological condition (comprising determining the
CC presence or absence of a mutation in human cardiovascular system
CC associated nucleic acid and diagnosing a condition based on the presence
CC or absence of the mutation), identifying a binding partner to human
CC cardiovascular system associated polypeptides, the gene corresponding to
CC the human cardiovascular system associated cDNA sequence and identifying
CC an activity in a biological assay comprising expressing the human
CC cardiovascular system associated cDNA in a cell, isolating the
CC supernatant, detecting an activity in a biological assay and identifying
CC the protein in the supernatant having the activity. The human
CC cardiovascular system associated nucleic acids and polypeptides are used
CC to prevent, treat or ameliorate a medical condition (for example in
CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep), for
CC example autoimmune diseases such as rheumatoid arthritis, for
CC hyperproliferative disorders, for example neoplasms of the breast or
CC liver, cardiovascular disorders, for example cardiac arrest.
CC
Query Match 1.4%; Score 45; DB 13; Length 17946;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2898 GGATCACCCTGAGGCGAGGTTGAGACCAAGCTGGCCCAATG 2942
Db 7806 GGATCACCCTGAGGCGAGGTTGAGACCAAGCTGGCCCAATG 7850
|||||
RESULT 154
ACN45138
ID ACN45138 standard; DNA; 23694 BP.
XX
XX ACN45138;
AC
XX
DT 18-NOV-2004 (first entry)
XX
XX
DE Human genomic sequence hCG17175.
XX
XX
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
OS Homo sapiens.
XX
XX W02003073826-A2.
PN
PD 12-SEP-2003.
XX
XX
PF 28-FEB-2003; 2003WO-US006235.
XX
XX
PR 01-MAR-2002; 2002US-00087192.
XX
PA (SAGR-) SAGRES DISCOVERY.
XX

PI Morris DW;
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
PT comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 1936; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published
XX
SQ Sequence 23694 BP; 5742 A; 6329 C; 5736 G; 5781 T; 0 U; 106 Other;
XX
Query Match 1.4%; Score 45; DB 11; Length 23694;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3077 TGTGCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCT 3121
DB 18194 TGTGCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCT 18238
ACN44954
ID ACN44954 standard; DNA; 31116 BP.
XX
AC ACN44954;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG38622.
XX
XX Cytosratic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO2003073826-A2.
XX
XX 12-SEP-2003.
XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
PT comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 1660; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for

CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published
XX
SQ Sequence 31116 BP; 7214 A; 8217 C; 7722 G; 7963 T; 0 U; 0 Other;
XX
Query Match 1.4%; Score 45; DB 11; Length 31116;
Best Local Similarity 100.0%; Pred. No. 2.8e-10; Indels 0; Gaps 0;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3078 GTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
DB 6981 GTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 7025
ACN44954
ID ACN44954 standard; DNA; 31279 BP.
XX
AC AD213255;
XX
XX 16-JUN-2005 (first entry)
XX
XX Human cancer-associated genomic DNA #63.
XX
XX Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;
XX
XX cytosratic; gene; ds.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO2005031001-A2.
XX
XX 07-APR-2005.
XX
XX 23-SEP-2004; 2004WO-US031617.
XX
XX 23-SEP-2003; 2003US-00669920.
XX
XX (CHIR) CHIRON CORP.
XX
XX Morris DW, Malandro MS;
XX
XX WPI; 2005-273395/28.
XX
XX Nucleic acid array useful for detecting cancer associated nucleic acid,
PT comprises two or more nucleic acid probes.
XX
XX Disclosure; SEQ ID NO 775; 198pp; English.
XX
XX The invention relates to a nucleic acid array for detecting a cancer
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.
CC The invention also relates to a peptide array comprising two or more
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound
CC that binds to a polypeptide, an isolated antibody or its fragment which
CC binds to a polypeptide, which is prepared by immunizing a host animal
CC with a composition comprising the polypeptide or its antigen binding
CC fragment and collecting cells from the host expressing antibodies against
CC the antigen or its antigen binding fragment, a composition comprising the
CC antibody and a carrier, a method of screening for anticancer activity, a
CC method of detecting a CA nucleic acid, a method of inhibiting expression of a
CC nucleic acid in a cell, The CA nucleic acids are useful for detecting CA
CC nucleic acids. The antibody is useful for detecting the presence or
CC absence of cancer cells in an individual which involves contacting cells
CC from the individual with the antibody and detecting a complex of a CA
CC protein from the cancer cells and the antibody, where the detection of
CC the complex correlates with the presence of cancer cells in the

CC individual. The composition is useful for inhibiting growth of cancer
CC cells in an individual or for delivering a therapeutic agent to cancer
CC cells in an individual. The invention is also useful for diagnosing
CC cancer, for treating cancer and for inhibiting expression of a CA gene in
CC a cell. This sequence represents human cancer-associated genomic DNA of
CC the invention.

XX Sequence 31279 BP; 7246 A; 8268 C; 7755 G; 8010 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 14; Length 31279;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTCTGTCTC 3122
DB 7137 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTCTGTCTC 7181

RESULT 157

ID ACN45014 standard; DNA; 32706 BP.

XX ACN45014;

DT 18-NOV-2004 (first entry)

XX Human genomic sequence hCG14907.

XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

OS Homo sapiens.

XX W02003073826-A2.

XX 12-SEP-2003.

XX 28-FEB-2003; 2003WC-US006235.

XX 01-MAR-2002; 2002US-00087192.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW;

XX WPI; 2003-328604/31.

PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.

PS Claim 1; SEQ ID NO 1750; Opp; English.

XX The present invention relates to novel DNA and protein sequences which
CC are associated with carcinomas. The sequences are useful for: (i) for
CC screening drug candidates; (ii) for screening of bioactive agent capable
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC a bioactive agent capable of modulating the activity of CAP; (iv) for
CC evaluating the effect of a candidate carcinoma drug; (v) for treating
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a bloodip;
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC determining Carcinoma Associated (CA) gene copy number. In addition, the
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published

SO Sequence 32706 BP; 8225 A; 7861 C; 8277 G; 8343 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 11; Length 32706;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2898 GGATACCTGAGGCCAGAGTTCCAGACACAGCTGGCCAAACTAG 2942

DB 15591 GGATACCTGAGGCCAGAGTTCCAGACACAGCTGGCCAAACTAG 15635

RESULT 158

ID ADL82795/C standard; DNA; 36534 BP.

XX ADL82795;

DT 20-MAY-2004 (first entry)

XX Human semaphorin3B, SEMA3B, DNA.

XX cancer cell proliferation; semaphorin3B, SEMA3B; cancer; tumour growth;

XX apoptosis; human; de; gene.

OS Homo sapiens.

XX US2003166557-A1.

XX 04-SEP-2003.

XX 31-OCT-2002; 2002US-00285351.

XX 31-OCT-2001; 2001US-0335783P.

XX (TEXA) UNIV TEXAS SYSTEM.

XX Minna J, Tomizawa Y, Sekido Y, Lerman M;

XX WPI; 2003-898098/82.

XX P-PSDB; ADL82793.

XX Inhibiting the proliferation of a cancer cell (e.g. breast cancer cell;
PT lung cancer cell or prostate cancer cell) comprises contacting the cell
PT with a semaphorin3B polypeptide that suppresses tumor growth.

XX Disclosure; SEQ ID NO 3; 75pp; English.

XX The invention relates to a method of inhibiting the proliferation of a
CC cancer cell comprises contacting the cell with a semaphorin3B (SEMA3B)
CC polypeptide. The composition and methods are useful in diagnosing or
CC treating cancer. The SEMA3B polypeptide inhibits tumour growth and
CC induces apoptosis in cancer cells. The present sequence represents DNA
CC encoding human semaphorin3B, SEMA3B.

XX Sequence 36534 BP; 7493 A; 10597 C; 10438 G; 8006 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 11; Length 36534;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTCTGTCTC 3122
DB 7478 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTCTGTCTC 7434

RESULT 159

ID AEB32373/C standard; DNA; 38678 BP.

XX AEB32373;

DT 08-SEP-2005 (first entry)

XX Human genomic DNA #14.

XX SNP detection; diagnosis; non-insulin dependent diabetes; obesity;
XX anti-diabetic; anorectic; endocrine disease; gastrointestinal disease;
XX metabolic disorder; nutritional disorder; gene; de.

OS Homo sapiens.

XX US2005147987-A1.
XX
XX 07-JUL-2005.
XX
XX 19-JUL-2004; 2004US-00893315.
XX
XX 08-SEP-2000; 2000US-0231397P.
XX 10-SEP-2001; 2001US-00948947.
XX
XX (APPL-) APPLERA CORP NY.
XX
XX Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;
XX Naik A, Subramanian G, Woodage T;
XX WPI; 2005-511776/52.
XX
XX New detection reagent capable of detecting I, 100, 500, 1000 or 5000 or
XX PT more single nucleic acid polymorphisms, useful in identifying an
XX PT individual having or at risk of developing type II diabetes or obesity.
XX
XX Disclosure; SEQ ID NO 136; 31pp; English.
XX
XX The invention relates to a detection reagent capable of detecting one or
XX CC more single nucleic acid polymorphisms. The invention also relates to
XX CC determining whether a trait is linked to one of the human chromosomes or
XX CC its sub-region, a computer readable medium having stored in it the SNP
XX CC relational information given in the specification, an isolated nucleic
XX CC acid molecule for detecting at least one SNP given in the specification
XX CC comprising at least about 12 contiguous nucleotides, genotyping at least
XX CC one SNP position given in the specification in a sample, identifying an
XX CC individual having or at risk of developing a disorder and a kit
XX CC comprising at least one container containing the detection reagent.
XX CC Determining whether a trait is linked to one of the human chromosomes or
XX CC its sub-region comprises determining whether the trait is linked to one
XX CC or more SNPs using the detection reagents. Genotyping at least one SNP
XX CC position given in the specification in a sample comprises contacting the
XX CC sample with a detection reagent that differentiates between alternative
XX CC alleles at at least one SNP position given in the specification, and
XX CC determining which allele is present at the at least one SNP position.
XX CC Identifying an individual having or at risk of developing a disorder
XX CC comprises genotyping at least one SNP given in the specification in a
XX CC nucleic acid sample from the individual. The disorder is type II diabetes
XX CC (non-insulin dependent diabetes) or obesity. The detection reagent is
XX CC useful in identifying an individual having or at risk of developing a
XX CC disorder, particularly type II diabetes or obesity. This sequence
XX CC represents human genomic DNA used in the scope of the invention. Note:
XX CC The sequence data for this patent did not form part of the printed
XX CC specification but was obtained in electronic format from USPTO at
XX CC seqdata.uspto.gov/sequence.html.
XX
XX Sequence 38678 BP; 9340 A; 9040 C; 9074 G; 10537 T; 0 U; 687 Other;
SQ
Query Match 1.4%; Score 45; DB 14; Length 38678;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCACTGCGCCAA 2939
Db 23579 GGTGATCACCCTGAGGCCAGAGTTCCAGACCACTGCGCCAA 23535
RESULT 160
AEB32391/c
ID AEB32391 standard; DNA; 38684 BP.
XX
XX AEB32391;
XX
XX 08-SEP-2005 (first entry)
XX
XX Human genomic DNA #32.
XX
XX SNP detection; diagnosis; non-insulin dependent diabetes; obesity;
XX
XX

KM antidiabetic; anorectic; endocrine disease; gastrointestinal disease;
XX metabolic disorder; nutritional disorder; gene; ds.
XX
XX Homo sapiens.
XX
XX US2005147987-A1.
XX
XX 07-JUL-2005.
XX
XX 19-JUL-2004; 2004US-00893315.
XX
XX 08-SEP-2000; 2000US-0231397P.
XX 10-SEP-2001; 2001US-00948947.
XX
XX (APPL-) APPLERA CORP NY.
XX
XX Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;
XX Naik A, Subramanian G, Woodage T;
XX WPI; 2005-511776/52.
XX
XX New detection reagent capable of detecting I, 100, 500, 1000 or 5000 or
XX PT more single nucleic acid polymorphisms, useful in identifying an
XX PT individual having or at risk of developing type II diabetes or obesity.
XX
XX Disclosure; SEQ ID NO 154; 31pp; English.
XX
XX The invention relates to a detection reagent capable of detecting one or
XX CC more single nucleic acid polymorphisms. The invention also relates to
XX CC determining whether a trait is linked to one of the human chromosomes or
XX CC its sub-region, a computer readable medium having stored in it the SNP
XX CC relational information given in the specification, an isolated nucleic
XX CC acid molecule for detecting at least one SNP given in the specification
XX CC comprising at least about 12 contiguous nucleotides, genotyping at least
XX CC one SNP position given in the specification in a sample, identifying an
XX CC individual having or at risk of developing a disorder and a kit
XX CC comprising at least one container containing the detection reagent.
XX CC Determining whether a trait is linked to one of the human chromosomes or
XX CC its sub-region comprises determining whether the trait is linked to one
XX CC or more SNPs using the detection reagents. Genotyping at least one SNP
XX CC position given in the specification in a sample comprises contacting the
XX CC sample with a detection reagent that differentiates between alternative
XX CC alleles at at least one SNP position given in the specification, and
XX CC determining which allele is present at the at least one SNP position.
XX CC Identifying an individual having or at risk of developing a disorder
XX CC comprises genotyping at least one SNP given in the specification in a
XX CC nucleic acid sample from the individual. The disorder is type II diabetes
XX CC (non-insulin dependent diabetes) or obesity. The detection reagent is
XX CC useful in identifying an individual having or at risk of developing a
XX CC disorder, particularly type II diabetes or obesity. This sequence
XX CC represents human genomic DNA used in the scope of the invention. Note:
XX CC The sequence data for this patent did not form part of the printed
XX CC specification but was obtained in electronic format from USPTO at
XX CC seqdata.uspto.gov/sequence.html.
XX
XX Sequence 38684 BP; 9340 A; 9042 C; 9075 G; 10540 T; 0 U; 687 Other;
SQ
Query Match 1.4%; Score 45; DB 14; Length 38684;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCACTGCGCCAA 2939
Db 23584 GGTGATCACCCTGAGGCCAGAGTTCCAGACCACTGCGCCAA 23540
RESULT 161
ADN31618
ID ADN31618 standard; DNA; 39566 BP.
XX
XX ADN31618;
XX
XX 12-AUG-2004 (first entry)
XX
XX

XX Human squalene synthase genomic DNA.
DE Human; ds; antisense; squalene synthase;
XX farnesyl diphosphate farnesyl transferase 1; cholesterol;
KW atherosclerosis; coronary heart disease; hypercholesterolaemia.
XX Homo sapiens.
OS US2004102405-A1.
XX
XX 27-MAY-2004.
XX
XX 23-NOV-2002; 2002US-00304125.
XX PF
XX 23-NOV-2002; 2002US-00304125.
XX PR
XX (ISIS-) ISIS PHARM INC.
XX
XX Freier SM, Bennett CF, Dean NM, Dobie KW;
PI WPI; 2004-399735/37.
XX
XX New oligonucleotide targeted to a nucleic acid molecule encoding squalene
PT synthase, useful in diagnosing and treating atherosclerosis.
XX
XX Example 15; SEQ ID NO 11; 67bp; English.
XX
XX The invention relates to a new compound 8-80 nucleobases in length (an
CC antisense oligonucleotide) targeted to a nucleic acid molecule encoding
CC squalene synthase (also known as farnesyl diphosphate farnesyl
CC transferase 1), where the compound specifically hybridises with the
CC nucleic acid molecule encoding human squalene synthase appearing as
CC ADN1611 and inhibits the expression of squalene synthase. Also included
CC are inhibiting the expression of squalene synthase in cells or tissues,
CC screening for a modulator of squalene synthase, a diagnostic method for
CC identifying a disease state, a kit or assay device comprising the
CC compound and treating an animal having a disease or condition associated
CC with squalene synthase. The compound and methods are useful in diagnosing
CC and treating disorders related to cholesterol biosynthesis e.g.
CC atherosclerosis, coronary heart disease and hypercholesterolaemia. The
CC present sequence is a squalene synthase genomic DNA sequence, a target
CC for the antisense oligonucleotide.
XX
XX Sequence 39566 BP; 9928 A; 8277 C; 9254 G; 12107 T; 0 U; 0 Other;
SQ
Query Match 1.4%; Score 45; DB 12; Length 39566;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2898 GGATCACTGAGGCCAGAGTTTCAGACCAAGCTGGCCAACTAG 2942
DB 25338 GGATCACTGAGGCCAGAGTTTCAGACCAAGCTGGCCAACTAG 25382
RESULT 162
ABX14652
ID ABX14652 standard; DNA; 40090 BP.
XX
XX ABX14652;
AC
XX
XX 05-MAR-2003 (first entry)
DT
XX
XX Human gene encoding squalene synthase.
DE Human; ds; gene; squalene synthase; cholesterol-related disease;
XX cardiovascular disease; chromosome 8.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH replace(825,A)
FT /*tag= 0
FT

FT /standard_name= "Single nucleotide polymorphism"
FT 2058. .37739
FT /*tag= a
FT /product= "Squalene synthase"
FT 2058. .2156
FT /*tag= b
FT /number= 1
FT 2157. .7996
FT /*tag= c
FT /number= 1
FT replace(2632,T)
FT /*tag= p
FT /standard_name= "Single nucleotide polymorphism"
FT replace(4430,C)
FT /*tag= q
FT /standard_name= "Single nucleotide polymorphism"
FT replace(4791,T)
FT /*tag= r
FT /standard_name= "Single nucleotide polymorphism"
FT replace(4886,C)
FT /*tag= s
FT /standard_name= "Single nucleotide polymorphism"
FT replace(4887,T)
FT /*tag= t
FT /standard_name= "Single nucleotide polymorphism"
FT replace(4889,A)
FT /*tag= u
FT /standard_name= "Single nucleotide polymorphism"
FT replace(5110,T)
FT /*tag= v
FT /standard_name= "Single nucleotide polymorphism"
FT replace(6911,A)
FT /*tag= w
FT /standard_name= "Single nucleotide polymorphism"
FT replace(7212,G)
FT /*tag= x
FT /standard_name= "Single nucleotide polymorphism"
FT replace(7355,T)
FT /*tag= y
FT /standard_name= "Single nucleotide polymorphism"
FT replace(7398,C)
FT /*tag= z
FT /standard_name= "Single nucleotide polymorphism"
FT replace(7653,C)
FT /*tag= aa
FT /standard_name= "Single nucleotide polymorphism"
FT 7997. .8094
FT /*tag= d
FT /number= 2
FT replace(8031,G)
FT /*tag= ad
FT /standard_name= "Single nucleotide polymorphism"
FT 8095. .8869
FT /*tag= e
FT /number= 2
FT replace(8145,C)
FT /*tag= ac
FT /standard_name= "Single nucleotide polymorphism"
FT replace(8310,A)
FT /*tag= ab
FT /standard_name= "Single nucleotide polymorphism"
FT replace(8462,G)
FT /*tag= ae
FT /standard_name= "Single nucleotide polymorphism"
FT 8870. .9053
FT /*tag= f
FT /number= 3
FT replace(8873,T)
FT /*tag= af
FT /standard_name= "Single nucleotide polymorphism"
FT 9054. .25147
FT /*tag= g
FT /number= 3


```
FT variation replace(9190,T)
FT /*tag= ag
FT /standard_name= "Single nucleotide polymorphism"
FT replace(9310..9312,GA)
FT /*tag= ah
FT /standard_name= "Single nucleotide polymorphism"
FT replace(9847,T)
FT /*tag= ai
FT /standard_name= "Single nucleotide polymorphism"
FT replace(10460,T)
FT /*tag= aj
FT /standard_name= "Single nucleotide polymorphism"
FT replace(20204,G)
FT /*tag= ak
FT /standard_name= "Single nucleotide polymorphism"
FT replace(20362,A)
FT /*tag= al
FT /standard_name= "Single nucleotide polymorphism"
FT replace(21166,A)
FT /*tag= am
FT /standard_name= "Single nucleotide polymorphism"
FT replace(21477,A)
FT /*tag= an
FT /standard_name= "Single nucleotide polymorphism"
FT replace(22230,T)
FT /*tag= ao
FT /standard_name= "Single nucleotide polymorphism"
FT replace(22941,G)
FT /*tag= ap
FT /standard_name= "Single nucleotide polymorphism"
FT replace(23963,T)
FT /*tag= aq
FT /standard_name= "Single nucleotide polymorphism"
FT 25148..25339
FT /*tag= h
FT /number= 4
FT 25340..29365
FT /*tag= i
FT /number= 4
FT replace(25686,A)
FT /*tag= ar
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26018,G)
FT /*tag= as
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26078,A)
FT /*tag= at
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26625,G)
FT /*tag= au
FT /standard_name= "Single nucleotide polymorphism"
FT replace(27151,C)
FT /*tag= av
FT /standard_name= "Single nucleotide polymorphism"
FT replace(28032,A)
FT /*tag= aw
FT /standard_name= "Single nucleotide polymorphism"
FT replace(28772,A)
FT /*tag= ax
FT /standard_name= "Single nucleotide polymorphism"
FT 29366..29542
FT /*tag= j
FT /number= 5
FT 29543..30639
FT /*tag= k
FT /number= 5
FT replace(29572,T)
FT /*tag= ay
FT /standard_name= "Single nucleotide polymorphism"
FT replace(29761,T)
FT /*tag= az
FT /standard_name= "Single nucleotide polymorphism"
FT 30640..30792
FT exon

FT /*tag= 1
FT /number= 6
FT replace(30732,C)
FT /*tag= ba
FT /standard_name= "Single nucleotide polymorphism"
FT 30793..307517
FT /*tag= m
FT /number= 6
FT replace(30841,G)
FT /*tag= bb
FT /standard_name= "Single nucleotide polymorphism"
FT replace(31376,A)
FT /*tag= bc
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32032,A)
FT /*tag= bd
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32525,G)
FT /*tag= be
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34179,T)
FT /*tag= bf
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34249,T)
FT /*tag= bg
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34451,C)
FT /*tag= bh
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34532,C)
FT /*tag= bi
FT /standard_name= "Single nucleotide polymorphism"
FT replace(36541,C)
FT /*tag= bj
FT /standard_name= "Single nucleotide polymorphism"
FT replace(36607,G)
FT /*tag= bk
FT /standard_name= "Single nucleotide polymorphism"

Query Match 1.4%; Score 45; DB 8; Length 40090;
Best Local Similarity 100.0%; Pred. No. 2.8e-10; Mismatches 0; Gaps 0;
Matches 45; Conservative 0; Indels 0;

Cy 2898 GGATCAGCTGAGGCCAGAGTTGAGACCAAGCTGGCCACATAG 2942
Db 25713 GGATCAGCTGAGGCCAGAGTTGAGACCAAGCTGGCCACATAG 25757

RESULT 163
ADN96863
ID ADN96863 standard; DNA; 40090 BP.
XX
AC ADN96863;
XX
XX 26-AUG-2004 (first entry)
XX
XX Novel human enzyme genomic DNA.
XX
XX disease diagnosis; gene expression associated disorder; gene expression;
XX enzyme peptide; human; gene; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX variation replace(825,A)
XX /*tag= a
XX /standard_name= "Single nucleotide polymorphism"
XX 2058..337739
XX /*tag= c
XX /product= "Novel human enzyme"
XX exon 2058..2156
XX /*tag= b
XX /number= 1
XX
```

FT	intron	2157. .7996	/tag= ab
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(20204,G)	
FT	variation	/tag= ac	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(20362,A)	
FT	variation	/tag= ad	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(21166,A)	
FT	variation	/tag= ae	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(21477,A)	
FT	variation	/tag= af	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(22230,T)	
FT	variation	/tag= ag	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(22941,G)	
FT	variation	/tag= ah	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(23963,T)	
FT	variation	/tag= ai	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		25148. .25339	
FT	exon	/tag= aj	
FT		/number= 4	
FT	intron	25340. .29365	
FT		/tag= ak	
FT		/number= 4	
FT	variation	replace(25686,A)	
FT		/tag= al	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(26018,G)	
FT	variation	/tag= am	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(26078,A)	
FT	variation	/tag= an	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(26625,G)	
FT	variation	/tag= ao	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(27151,C)	
FT	variation	/tag= ap	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(28032,A)	
FT	variation	/tag= aq	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(28772,A)	
FT	variation	/tag= ar	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		29366. .29342	
FT	exon	/tag= ae	
FT		/number= 5	
FT	intron	29543. .30639	
FT		/tag= at	
FT		/number= 5	
FT	variation	replace(29572,T)	
FT		/tag= au	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(29761,T)	
FT	variation	/tag= av	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		30640. .30792	
FT	exon	/tag= aw	
FT		/number= 6	
FT	variation	replace(30732,C)	
FT		/tag= ax	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		30793. .37517	
FT	intron	/tag= ay	
FT		/number= 6	
FT	variation	replace(30841,G)	
FT		/tag= az	

FT	intron	2157. .7996	/tag= d
FT		/number= 1	
FT	variation	replace(2632,T)	
FT		/tag= e	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(4430,C)	
FT	variation	/tag= f	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(4791,T)	
FT	variation	/tag= g	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(4886,C)	
FT	variation	/tag= h	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(4887,T)	
FT	variation	/tag= i	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(4889,A)	
FT	variation	/tag= j	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(5110,T)	
FT	variation	/tag= k	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(6511,A)	
FT	variation	/tag= l	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(7212,G)	
FT	variation	/tag= m	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(7355,T)	
FT	variation	/tag= n	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(7398,C)	
FT	variation	/tag= o	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(7653,C)	
FT	variation	/tag= p	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		7997. .8094	
FT	exon	/tag= q	
FT		/number= 2	
FT	variation	replace(8031,G)	
FT		/tag= r	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		8095. .8869	
FT	intron	/tag= b	
FT		/number= 2	
FT	variation	replace(8145,C)	
FT		/tag= t	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(8310,A)	
FT	variation	/tag= u	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(8462,G)	
FT	variation	/tag= v	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		8870. .9053	
FT	exon	/tag= w	
FT		/number= 3	
FT	variation	replace(8873,T)	
FT		/tag= x	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		9054. .25147	
FT	intron	/tag= y	
FT		/number= 3	
FT	variation	replace(9190,T)	
FT		/tag= z	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(9847,T)	
FT	variation	/tag= aa	
FT		/standard_name=	"Single nucleotide polymorphism"
FT		replace(10460,C)	

```
PT /standard_name= "Single nucleotide polymorphism"
PT replace(31376,A)
PT /*tag= ba
PT /standard_name= "Single nucleotide polymorphism"
PT replace(32032,A)
PT /*tag= db
PT /standard_name= "Single nucleotide polymorphism"
PT replace(32525,G)
PT /*tag= bc
PT /standard_name= "Single nucleotide polymorphism"
PT replace(34179,T)
PT /*tag= bd
PT /standard_name= "Single nucleotide polymorphism"
PT replace(34249,T)
PT /*tag= be
PT /standard_name= "Single nucleotide polymorphism"
PT replace(34451,C)
PT /*tag= bf
PT /standard_name= "Single nucleotide polymorphism"
PT replace(34532,C)
PT /*tag= bg
PT /standard_name= "Single nucleotide polymorphism"
PT replace(35541,C)
PT /*tag= bh
PT /standard_name= "Single nucleotide polymorphism"
PT replace(36607,G)
PT /*tag= bi
PT /standard_name= "Single nucleotide polymorphism"
PT replace(36681,G)
PT /*tag= bj
PT /standard_name= "Single nucleotide polymorphism"

Query Match 1.4%; Score 45; DB 12; Length 40090;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 2898 GGAATCACTGAGCGCAGAGTTTCAGACCACTGCGCCAACTATG 2942
    |||||
Db 25713 GGATCACTGAGCGCAGAGTTTCAGACCACTGCGCCAACTATG 25757
```

```
RESULT 164
AD213149/C
ID AD213149 standard; DNA; 57105 BP.
XX
AC AD213149;
XX
DT 16-JUN-2005 (first entry)
XX
DE Human cancer-associated genomic DNA #56.
XX
KW Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;
KW cytosolic; gene; de.
XX
OS Homo sapiens.
XX
PN W02005031001-A2.
XX
PD 07-APR-2005.
XX
PP 23-SEP-2004; 2004WO-US031617.
XX
PR 23-SEP-2003; 2003US-00669920.
XX
PA (CHIR ) CHIRON CORP.
XX
PI Morris DW, Malandro MS;
XX
DR WPI, 2005-273395/28.
XX
PT Nucleic acid array useful for detecting cancer associated nucleic acid,
    comprises two or more nucleic acid probes.
```

```
PS Disclosure; SEQ ID NO 669; 198bp; English.
XX
XX The invention relates to a nucleic acid array for detecting a cancer
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.
CC The invention also relates to a peptide array comprising two or more
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound
CC that binds to a polypeptide, an isolated antibody or its fragment which
CC binds to a polypeptide, which is prepared by immunizing a host animal
CC with a composition comprising the polypeptide or its antigen binding
CC fragment and collecting cells from the host expressing antibodies against
CC the antigen or its antigen binding fragment, a composition comprising the
CC antibody and a carrier, a method of screening for anticancer activity, a
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a
CC method of treating cancer and a method of inhibiting expression of a CA
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA
CC nucleic acids. The antibody is useful for detecting the presence or
CC absence of cancer cells in an individual which involves contacting cells
CC from the individual with the antibody and detecting a complex of a CA
CC protein from the cancer cells and the antibody, where the detection of
CC the complex correlates with the presence of cancer cells in the
CC individual. The composition is useful for inhibiting growth of cancer
CC cells in an individual or for delivering a therapeutic agent to cancer
CC cells in an individual. The invention is also useful for diagnosing
CC cancer, for treating cancer and for inhibiting expression of a CA gene in
CC a cell. This sequence represents human cancer-associated genomic DNA of
CC the invention.
XX
SQ Sequence 57105 BP; 15389 A; 12942 C; 12984 G; 15770 T; 0 U; 20 Other;
```

```
Query Match 1.4%; Score 45; DB 14; Length 57105;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 3078 GTGCCACTGCACTCCAGCTCGGCAAGCAAGCAAGCAAGCTCTGTCTC 3122
    |||||
Db 39001 GTGCCACTGCACTCCAGCTCGGCAAGCAAGCAAGCAAGCTCTGTCTC 38957
```

```
RESULT 165
ABK83563
ID ABK83563 standard; cDNA; 57248 BP.
XX
AC ABK83563;
XX
DT 14-AUG-2002 (first entry)
XX
DE Human cDNA differentially expressed in granulocytic cells #134.
XX
XX Human; se; granulocytic cell; DNA chip; bacterial infection;
KW viral infection; parasitic infection; protozoal infection;
KW fungal infection; sterile inflammatory disease; psoriasis;
KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
KW adult respiratory distress syndrome; inflammatory bowel disease;
KW Crohn's disease; ulcerative colitis; peridontal disease;
KW granulocyte activation; chronic inflammation; allergy.
XX
OS Homo sapiens.
XX
PN W0200228999-A2.
XX
PD 11-APR-2002.
XX
PP 03-OCT-2001; 2001WO-US030821.
XX
PR 03-OCT-2000; 2000US-0237189P.
XX
PA (GENE-) GENE LOGIC INC.
XX
PI Beazer-Barclay Y, Weltsman SM, Yamaga S, Vockley J;
XX
DR WPI; 2002-435328/46.
XX
```

PT Detecting granulocyte activation by detecting differential expression of
PT genes associated with granulocyte activation, which serves as diagnostic
PT markers that is useful for monitoring disease states and drug toxicity.
XX
PS Claim 1; SEQ ID NO 134; 114pp; English.
XX
CC The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing the
CC expression level to an expression level in an unactivated GC, where
CC differential expression of Gs is indicative of GCA. Also included are
CC modulating (M2) GA by contacting GC with an agent that alters the
CC expression of at least one gene in Gs; (2) screening (M3) for an agent
CC capable of altering GCA or an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease using the gene expression
CC profile; (3) detecting (M4) an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease, by detecting the level of
CC expression in a sample of the tissue of gene(s) from Gs, where the level
CC of expression of the gene is indicative of inflammation; (4) treating
CC (M5) an inflammation (especially chronic) or in a tissue, an allergic
CC response in a subject, exposure of a subject to a pathogen or sterile
CC inflammatory disease, by contacting a tissue having inflammation with an
CC agent that modulates the expression of gene(s) from Gs in the tissue. M1
CC is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful
CC for screening an agent capable of modulating GCA preferably in an
CC inflammation in a tissue; M4 is useful for detecting an inflammation
CC (especially chronic) in a tissue, an allergic response in a subject,
CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.
CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,
CC cardiac reperfusion injury, renal reperfusion injury, ARDS, adult
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's
CC disease, ulcerative colitis, periodontal disease, also bacterial
CC infection, viral infection, parasitic infection, protozoal infection,
CC fungal infection and M5 is useful for treating one of the above
CC conditions. The present sequence represents a gene differentially
CC expressed in granulocytes. Note: The sequence data for this patent did
CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 57248 BP; 15003 A; 13601 C; 13307 G; 15337 T; 0 U; 0 Other;
XX
Query Match 1.4%; Score 45; DB 6; Length 57248;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2888 TGAGGCAAGTGGATCAGCTGAGGCGGAGGATTGAGACGAGCTG 2932
Db 31301 TGAGGCAAGTGGATCAGCTGAGGCGGAGGATTGAGACGAGCTG 31345
XX
RESULT 166
ABD32902
ID ABD32902 standard; DNA; 65277 BP.
AC ABD32902;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human cancer-associated genomic DNA HD18-038.
XX
KM Human; ds; cancer-associated protein; gene; cytosolic; cancer;
KM Leukemia; Lymphoma; CAP.
XX
OS Homo sapiens.
XX
PN MO2004074320-A2.
XX
PD 02-SEP-2004.
XX
PF 17-FEB-2004; 2004WO-US004730.

XX
PR 14-FEB-2003; 2003US-00367094.
PR 14-MAR-2003; 2003US-00388838.
PR 15-APR-2003; 2003US-00417375.
PR 13-JUN-2003; 2003US-00461862.
PR 15-SEP-2003; 2003US-00663431.
PR 15-DEC-2003; 2003US-00737318.
XX
PA (SAGR-) SAGRES DISCOVERY INC.
XX
PI Morris DW, Morris DW, Malandro MS;
XX
DR WPI; 2004-652914/63.
XX
PT New isolated cancer-associated polynucleotides and polypeptides useful
PT for diagnosing, preventing or treating cancers, especially lymphoma and
XX leukemia, or in screening for agents that modulate cancer.
XX
PS claim 16; seqid 602; 310pp; English.
XX
CC The invention relates to an isolated nucleic acid comprising at least 10
CC contiguous nucleotides of any of the 23 polynucleotide sequences given
CC in the specification, or its complement. The nucleic acids encode cancer-
CC associated proteins. Also included are an expression vector comprising
CC the isolated nucleic acid cited above, a host cell comprising the above
CC recombinant nucleic acid or expression vector, a microarray for detecting
CC a cancer-associated (CA) nucleic acid comprising at least one probe
CC comprising at least 10 contiguous nucleotides of any of the above-
CC mentioned nucleotide sequences, an isolated polypeptide (encoded within
CC an open reading frame of a CA sequence selected from any of the 95
CC polynucleotide sequences as mentioned in the specification, or its
CC complement), an isolated antibody, (or its antigen binding fragment) that
CC binds to the above polypeptide, a hybridoma that produces the above
CC monoclonal antibody, a pharmaceutical composition comprising the above
CC antibody and a pharmaceutical excipient, a kit for detecting cancer
CC cells (comprising the antibody cited above, methods for diagnosing cancer
CC or for detecting the presence or absence of cancer cells in an
CC individual, a method for inhibiting growth of cancer cells in an
CC individual, a method for delivering a therapeutic agent to cancer cells
CC in an individual, an electronic library comprising the above
CC polynucleotide or polypeptide (or their fragments), methods of screening
CC for anticancer activity or for a bioactive agent capable of modulating
CC the activity of a CA protein (CAP), methods for detecting cancer
CC associated with expression of a polypeptide in a test cell sample, a
CC method for treating cancers and a method for inhibiting the expression of
CC CA gene in a cell. The composition and methods are useful for detecting,
CC diagnosing, preventing and treating cancers, especially lymphoma and
CC leukemia. These may also be used in screening for agents that modulate
CC cancer. The present sequence is a human CAP genomic sequence. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 65277 BP; 19651 A; 11706 C; 12664 G; 21256 T; 0 U; 0 Other;
XX
Query Match 1.4%; Score 45; DB 13; Length 65277;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2899 GATCACTGAGGCGGAGGATTGAGACGAGCTGCGCAATAGC 2943
Db 27320 GATCACTGAGGCGGAGGATTGAGACGAGCTGCGCAATAGC 27364
XX
RESULT 167
ACN43986/C
ID ACN43986 standard; DNA; 73995 BP.
XX
AC ACN43986;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human genomic sequence hCG40211.

```

XX  Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX  Homo sapiens.
XX  MO2003073826-A2.
XX  12-SEP-2003.
XX  28-FEB-2003; 2003MO-US006235.
XX  01-MAR-2002; 2002US-00087192.
XX  (SAGR-) SAGRES DISCOVERY.
XX  Morrie DW;
XX  WPI; 2003-328604/31.
XX  Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX  comprises a nucleotide sequence.
XX
XX  Claim 1; SEQ ID NO 208; Opp; English.
XX
XX  The present invention relates to novel DNA and protein sequences which
XX  are associated with carcinomas. The sequences are useful for: (i) for
XX  screening drug candidates; (ii) for screening of bioactive agent capable
XX  of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX  a bioactive agent capable of modulating the activity of CAP; (iv) for
XX  evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX  carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
XX  carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX  (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX  determining Carcinoma Associated (CA) gene copy number. In addition, the
XX  CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX  carcinoma including lymphoma. The present sequence is one such CA coding
XX  sequence. Note: This patent is an equivalent to basic patent
XX  US2002182586A1, for which no sequence data was published
XX
XX  Sequence 73995 BP; 17594 A; 18402 C; 19247 G; 18752 T; 0 U; 0 Other;
XX
XX  Query Match 1.4%; Score 45; DB 11; Length 73995;
XX  Best Local Similarity 100.0%; Pred. No. 2.8e-10;
XX  Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX  3078 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
XX  27485 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 27441
XX
XX  RESULT 168
XX  ACAA64942
XX  ID ACAA64942 standard; DNA; 78539 BP.
XX  AC ACAA64942;
XX  27-JUN-2003 (first entry)
XX  Human FRAP1 DNA corresponding to AL049659.
XX
XX  Human; chronic inflammatory joint disease; infection; tumour;
XX  antiinflammatory; cytostatic; antiarthritic; antirheumatic;
XX  immunosuppressive; gene therapy; etiological pathogenicity; ds.
XX  Homo sapiens.
XX  DE10127572-A1.
XX  05-DEC-2002.
XX  30-MAY-2001; 2001DE-01027572.
XX  30-MAY-2001; 2001DE-01027572.
XX

```

```

XX  (PATR-) PATHARRAY GMBH.
XX  Haeupl T, Ungelthum U, Blaess S;
XX  WPI; 2003-240797/24.
XX
XX  Reagents for diagnosis, study and therapy of chronic inflammatory joint
XX  and other diseases, comprises any of many specified genes or derived
XX  proteins.
XX
XX  Claim 1; Page; 12pp; German.
XX
XX  This invention describes a novel reagent for diagnosis, molecular
XX  definition and therapy of chronic inflammatory joint diseases, and other
XX  inflammatory disorder, infective or tumour diseases in humans. The
XX  products of the invention have antiinflammatory, cyostatic,
XX  antiarthritic, antirheumatic and immunosuppressive activity and can be
XX  used for gene therapy. The reagent of the invention and any proteins and
XX  antibodies derived from it, are used (i) for analysing tissue and blood
XX  samples for medical diagnosis; (ii) for diagnosis and characterisation of
XX  chronic joint diseases, on the basis of molecular characterisation, and
XX  determining the etiological pathogenicity principle of as yet
XX  uncharacterised inflammatory diseases, also monitoring progression and/or
XX  treatment of disease, and optimisation of therapy and (iii) for
XX  developing treatments for inflammatory diseases, particularly of joints,
XX  infections and tumours. ACAA64801-ACAA64965 represent human polynucleotides
XX  used in the method of the invention
XX
XX  Sequence 78539 BP; 23554 A; 17605 C; 17140 G; 20240 T; 0 U; 0 Other;
XX
XX  Query Match 1.4%; Score 45; DB 8; Length 78539;
XX  Best Local Similarity 100.0%; Pred. No. 2.8e-10;
XX  Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX  3078 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
XX  56640 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 56684
XX
XX  RESULT 169
XX  ADO79404/c
XX  ID ADO79404 standard; DNA; 89900 BP.
XX  AC ADO79404;
XX  26-AUG-2004 (first entry)
XX  DPF3 region, SEQ ID 3.
XX
XX  Cytostatic; Gene therapy; breast cancer; human; DLG1; KIAA0783; DPF3;
XX  CENPCL; gene; ds; SNP; single nucleotide polymorphism;
XX  D4, zinc and double PND fingers, family 3; CBRD4; cer-4d; PLJ14079;
XX  2810403B03R1k; Rho family guanine-nucleotide exchange factor;
XX  chromosome 14q24.3-q31.1.
XX  Homo sapiens.
XX
XX  Key Location/Qualifiers
XX  variation 160
XX  /*tag= a
XX  /standard name= "Single nucleotide polymorphism"
XX  /note= "This SNP is described as a A/C SNP"
XX  6053
XX  variation
XX  /*tag= b
XX  /standard name= "Single nucleotide polymorphism"
XX  /note= "This SNP is described as a T/G SNP"
XX  9719
XX  variation
XX  /*tag= c
XX  /standard name= "Single nucleotide polymorphism"
XX  /note= "This SNP is described as a A/G SNP"
XX  10481
XX  variation
XX  /*tag= d
XX

```

[illegible]

XX WO2004047514-A2.
XX
XX 10-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037943.
XX
XX 25-NOV-2002; 2002US-0429136P.
XX 24-JUL-2003; 2003US-0490234P.
XX
XX (SEQU-) SEQUENOM INC.
XX
XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
XX WPI; 2004-441037/41.
XX
XX Identifying a subject at risk of breast cancer by detecting the presence
XX of polymorphic variations in the Dlg1, KIA0783, DPF3 or CENPC1 regions
XX PT which are associated with breast cancer in a nucleic acid sample from a
XX subject.
XX
XX Claim 24; Fig 3; 227pp; English.
XX

Query Match 1.4%; Score 45; DB 12; Length 89900;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3078 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
DB 59096 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 59052

RESULT 170
ABD33524/C
ID ABD33524 standard; DNA; 107543 BP.
XX
XX ABD33524;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human cancer-associated (CA) gene HD07-103.
XX
XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;
XX KM de; cancer; cytostatic.
XX
XX Homo sapiens.
XX
XX WO2004058146-A2.
XX
XX 15-JUL-2004.
XX
XX 15-DEC-2003; 2003WO-US040081.
XX
XX 17-DEC-2002; 2002US-00322281.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX WPI; 2004-499109/47.
XX
XX Novel human cancer associated protein encoded within open reading frame
XX PT of cancer associated gene, useful as targets for diagnosing cancer.
XX
XX Claim 16; SEQ ID NO 706; 182pp; English.
XX
XX The invention relates to cancer-associated proteins (CAP) and the cancer-
XX associated (CA) nucleic acids encoding them. The invention also relates
XX to a method for treating cancers involving administering to a patient an
XX inhibitor of CAP, and a method of screening for anticancer activity in a
XX potential drug involving providing a cell that expresses a CA gene,
XX contacting a tissue sample derived from a cancer cell with an anticancer
XX

CC drug candidate and monitoring the effect of the anticancer drug candidate
CC on expression of the CA gene. The CAP proteins are useful for detecting
CC cancer associated with expression of a CAP protein in a test cell sample
CC and for screening for a bioactive agent capable of modulating the
CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing
CC cancer, involving determining the expression of a CA nucleic acid in a
CC tissue. This sequence represents a human CA gene of the invention. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 107543 BP; 30009 A; 20779 C; 22714 G; 34041 T; 0 U; 0 Other;
SQ

Query Match 1.4%; Score 45; DB 13; Length 107543;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3078 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122
DB 39889 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 39845

RESULT 171
ABD33242/C
ID ABD33242 standard; DNA; 107745 BP.
XX
XX ABD33242;
XX

XX 18-NOV-2004 (first entry)
XX
XX Human cancer-associated (CA) gene HD07-040.
XX
XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;
XX KM de; cancer; cytostatic.
XX
XX Homo sapiens.
XX
XX WO2004058146-A2.
XX
XX 15-JUL-2004.
XX
XX 15-DEC-2003; 2003WO-US040081.
XX
XX 17-DEC-2002; 2002US-00322281.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX WPI; 2004-499109/47.
XX
XX Novel human cancer associated protein encoded within open reading frame
XX PT of cancer associated gene, useful as targets for diagnosing cancer.
XX
XX Claim 16; SEQ ID NO 268; 182pp; English.
XX

XX The invention relates to cancer-associated proteins (CAP) and the cancer-
XX associated (CA) nucleic acids encoding them. The invention also relates
XX to a method for treating cancers involving administering to a patient an
XX inhibitor of CAP, and a method of screening for anticancer activity in a
XX potential drug involving providing a cell that expresses a CA gene,
XX contacting a tissue sample derived from a cancer cell with an anticancer
XX drug candidate and monitoring the effect of the anticancer drug candidate
XX on expression of the CA gene. The CAP proteins are useful for detecting
XX cancer associated with expression of a CAP protein in a test cell sample
XX and for screening for a bioactive agent capable of modulating the
XX activity of a CAP protein. The CA nucleic acids are useful for diagnosing
XX cancer, involving determining the expression of a CA nucleic acid in a
XX tissue. This sequence represents a human CA gene of the invention. Note:
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences
XX

Sequence 107745 BP; 27670 A; 22736 C; 24082 G; 32763 T; 0 U; 494 Other;

Query Match 1.4%; Score 45; DB 13; Length 107745;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122
Db 21081 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 21037

RESULT 172
ABL57909_2
Continuation (3 of 4) of ABL57909 from base 200001 (Human transporter protein gene.)
WP Sequence split into 4 fragments LOCUS ABL57909 Accession ABL57909

WP	Fragment Name	Begin	End
WP	ABL57909_0	1	110000
WP	ABL57909_1	100001	210000
WP	ABL57909_2	200001	310000
WP	ABL57909_3	300001	368004

Query Match 1.4%; Score 45; DB 6; Length 110000;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCACCTGCATCTCCAGCTGGGCAACAGACGACT 3115
Db 52355 CAAGATTGTGCACCTGCATCTCCAGCTGGGCAACAGACGACT 52399

RESULT 173
ABX08336_03/c
Continuation (4 of 17) of ABX08336 from base 300001 (Human phosphodiesterase 4D (PDE4D))
WP Sequence split into 17 fragments LOCUS ABX08336 Accession ABX08336

WP	Fragment Name	Begin	End
WP	ABX08336_00	1	110000
WP	ABX08336_01	100001	210000
WP	ABX08336_02	200001	310000
WP	ABX08336_03	300001	410000
WP	ABX08336_04	400001	510000
WP	ABX08336_05	500001	610000
WP	ABX08336_06	600001	710000
WP	ABX08336_07	700001	810000
WP	ABX08336_08	800001	910000
WP	ABX08336_09	900001	1010000
WP	ABX08336_10	1000001	1110000
WP	ABX08336_11	1100001	1210000
WP	ABX08336_12	1200001	1310000
WP	ABX08336_13	1300001	1410000
WP	ABX08336_14	1400001	1510000
WP	ABX08336_15	1500001	1610000
WP	ABX08336_16	1600001	1691080

Query Match 1.4%; Score 45; DB 6; Length 110000;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122
Db 61071 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 61027

RESULT 174
AAD53224_2/c
Continuation (3 of 6) of AAD53224 from base 200001 (Human chromosome 3 q-arm breakpoint)

WP	Fragment Name	Begin	End
WP	AAD53224_0	1	110000
WP	AAD53224_1	100001	210000
WP	AAD53224_2	200001	310000
WP	AAD53224_3	300001	410000
WP	AAD53224_4	400001	510000
WP	AAD53224_5	500001	567571

Query Match 1.4%; Score 45; DB 8; Length 110000;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122
Db 99432 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 99388

RESULT 175
ADJ25985_03/c
Continuation (4 of 17) of ADJ25985 from base 300001 (Human phosphodiesterase 4D (PDE4D))
WP Sequence split into 17 fragments LOCUS ADJ25985 Accession ADJ25985

WP	Fragment Name	Begin	End
WP	ADJ25985_00	1	110000
WP	ADJ25985_01	100001	210000
WP	ADJ25985_02	200001	310000
WP	ADJ25985_03	300001	410000
WP	ADJ25985_04	400001	510000
WP	ADJ25985_05	500001	610000
WP	ADJ25985_06	600001	710000
WP	ADJ25985_07	700001	810000
WP	ADJ25985_08	800001	910000
WP	ADJ25985_09	900001	1010000
WP	ADJ25985_10	1000001	1110000
WP	ADJ25985_11	1100001	1210000
WP	ADJ25985_12	1200001	1310000
WP	ADJ25985_13	1300001	1410000
WP	ADJ25985_14	1400001	1510000
WP	ADJ25985_15	1500001	1610000
WP	ADJ25985_16	1600001	1691139

Query Match 1.4%; Score 45; DB 12; Length 110000;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122
Db 61070 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 61026

RESULT 176
ADN97989_03/c
Continuation (4 of 17) of ADN97989 from base 300001 (Human phosphodiesterase 4D genomic)

WP	Fragment Name	Begin	End
WP	ADN97989_00	1	110000
WP	ADN97989_01	100001	210000
WP	ADN97989_02	200001	310000
WP	ADN97989_03	300001	410000
WP	ADN97989_04	400001	510000
WP	ADN97989_05	500001	610000
WP	ADN97989_06	600001	710000
WP	ADN97989_07	700001	810000
WP	ADN97989_08	800001	910000
WP	ADN97989_09	900001	1010000
WP	ADN97989_10	1000001	1110000
WP	ADN97989_11	1100001	1210000
WP	ADN97989_12	1200001	1310000
WP	ADN97989_13	1300001	1410000
WP	ADN97989_14	1400001	1510000
WP	ADN97989_15	1500001	1610000
WP	ADN97989_16	1600001	1691138

Query Match 1.4%; Score 45; DB 12; Length 110000;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122
Db 61071 GTGCCACTGCATCTCCAGCTGGGCAACAGACGACTCTGTCTC 61027

RESULT 177

AD050281_03/c
Continuation (4 of 17) of AD050281 from base 300001 (Human phosphodiesterase 4D (PDE4D))
WP Sequence split into 17 fragments LOCUS AD050281 Accession AD050281

WP	Fragment Name	Begin	End
WP	AD050281_00	1	110000
WP	AD050281_01	100001	210000
WP	AD050281_02	200001	310000
WP	AD050281_03	300001	410000
WP	AD050281_04	400001	510000
WP	AD050281_05	500001	610000
WP	AD050281_06	600001	710000
WP	AD050281_07	700001	810000
WP	AD050281_08	800001	910000
WP	AD050281_09	900001	1010000
WP	AD050281_10	1000001	1110000
WP	AD050281_11	1100001	1210000
WP	AD050281_12	1200001	1310000
WP	AD050281_13	1300001	1410000
WP	AD050281_14	1400001	1510000
WP	AD050281_15	1500001	1610000
WP	AD050281_16	1600001	1691134

Query Match
Best Local Similarity 1.4%; Score 45; DB 12; Length 110000;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAACTCTGTCTC 3122
Db 61070 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAAGCAACTCTGTCTC 61026

RESULT 178

AE85185_03/c
Continuation (4 of 17) of AE85185 from base 300001 (Human phosphodiesterase 4D gene SEQ
WP Sequence split into 17 fragments LOCUS AE85185 Accession AE85185

WP	Fragment Name	Begin	End
WP	AE85185_00	1	110000
WP	AE85185_01	100001	210000
WP	AE85185_02	200001	310000
WP	AE85185_03	300001	410000
WP	AE85185_04	400001	510000
WP	AE85185_05	500001	610000
WP	AE85185_06	600001	710000
WP	AE85185_07	700001	810000
WP	AE85185_08	800001	910000
WP	AE85185_09	900001	1010000
WP	AE85185_10	1000001	1110000
WP	AE85185_11	1100001	1210000
WP	AE85185_12	1200001	1310000
WP	AE85185_13	1300001	1410000
WP	AE85185_14	1400001	1510000
WP	AE85185_15	1500001	1610000
WP	AE85185_16	1600001	1691140

Query Match
Best Local Similarity 1.4%; Score 45; DB 14; Length 110000;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAACTCTGTCTC 3122
Db 61071 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAAGCAACTCTGTCTC 61027

RESULT 179

ADQ17592
ID ADQ17592 standard; DNA; 116561 BP.

XX ADQ17592;
XX 26-AUG-2004 (first entry)
DT
XX

DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 409.

XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
KW de.

OS Homo sapiens.

PN WO2004048938-A2.

PD 10-JUN-2004.

PF 26-NOV-2003; 2003WO-US038193.

PR 26-NOV-2002; 2002US-0429739P.

PA (PROT-) PROTEIN DESIGN LABS INC.

PI Aziz N, Ginsburg WM, Zlotnick A;

DR WPI; 2004-441208/41.

XX

PT Early detection of soft tissue sarcoma comprises determining expression

PT of a gene in a first soft tissue sample and a normal soft tissue sample

PT and comparing the gene expression, also useful in treating soft tissue

PT sarcoma.

PS

XX

CC The invention relates to a novel method for detecting soft tissue sarcoma

CC which comprises obtaining a first soft tissue sample from an individual

CC and a normal soft tissue sample from the same or different individual,

CC determining the expression of a gene in both samples and comparing the

CC expression of the gene in both soft tissue samples, where a higher level

CC of protein expression in the first soft tissue sample indicates the

CC presence of soft tissue sarcoma. The method of the invention has

CC cytostatic applications and may be useful for detecting soft tissue

CC sarcoma, possibly via gene therapy or vaccine production. The nucleic

CC acid sequences may be useful in diagnostic and screening applications.

CC The current sequence is that of a human soft tissue sarcoma-upregulated

CC DNA of the invention. The current sequence is not shown within the

CC specification per se but was submitted in CD format by the inventor.

XX

SQ Sequence 116561 BP; 32234 A; 27837 C; 28253 G; 28237 T; 0 U; 0 Other;

QY

3078 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAAGCAACTCTGTCTC 3122

Db 104267 GTGGCACTGCACCTCCAGCTGGGCAACAGCAAGCAAGCAAGCAACTCTGTCTC 104311

XX

XX

XX

XX

XX Claim 1; SEQ ID NO 1368; 114pp; English.
PS
XX
CC The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing the
CC expression level to an expression level in an unactivated GC, where
CC differential expression of Gs is indicative of GCA. Also included are
CC modulating (M2) GA by contacting GC with an agent that alters the
CC expression of at least one gene in Gs; (2) screening (M3) for an agent
CC capable of modulating GCA or an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease using the gene expression
CC profile; (3) detecting (M4) an inflammation (especially chronic) in a
CC tissue, an allergic response in a subject, exposure of a subject to a
CC pathogen or sterile inflammatory disease, by detecting the level of
CC expression in a sample of the tissue of gene(s) from Gs, where the level
CC of expression of the gene is indicative of inflammation; (4) treating
CC (M5) an inflammation (especially chronic) or in a tissue, an allergic
CC response in a subject, exposure of a subject to a pathogen or sterile
CC inflammatory disease, by contacting a tissue having inflammation with an
CC agent that modulates the expression of gene(s) from Gs in the tissue. M1
CC is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful
CC for screening an agent capable of modulating GCA preferably in an
CC inflammation in a tissue; M4 is useful for detecting an inflammation
CC (especially chronic) in a tissue, an allergic response in a subject,
CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.
CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,
CC cardiac reperfusion injury, renal reperfusion injury, AIDS, adult
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's
CC disease, ulcerative colitis, periodontal disease; also bacterial
CC infection, viral infection, parasitic infection, protozoal infection,
CC fungal infection and M5 is useful for treating one of the above
CC conditions. The present sequence represents a gene differentially
CC expressed in granulocytes. Note: The sequence data for this patent did
CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 149671 BP; 45600 A; 33308 C; 32389 G; 38374 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 6; Length 149671;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2888 TGAGGCGAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 2932
DB 94008 TGAGGCGAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 93964
RESULT 183
ADB70361/c
ID ADB70361 standard; cDNA; 149671 BP.
XX
AC ADB70361;
XX
DT 04-DEC-2003 (first entry)
XX
DE Meesin cDNA SEQ ID NO:53.
XX
XX cancer; malignant pleural mesothelioma; MPW; lung adenocarcinoma;
XX squamous carcinoma; medulloblastoma; prostate cancer; breast cancer;
XX diffuse large B-cell lymphoma; follicular lymphoma; ovarian cancer;
XX human; gene; ss.
OS Homo sapiens.
XX
XX WO2003021229-A2.
XX
XX 13-MAR-2003.
XX
XX 05-SEP-2002; 2002WO-US028203.
XX

PR 05-SEP-2001; 2001US-0317389P.
PR 30-AUG-2002; 2002US-00236031.
XX
XX (BGHM) BRIGHAM & WOMENS HOSPITAL INC.
XX
XX Gordon GI, Jensen RV, Gullans SR, Bueno R;
XX WPI; 2003-290233/28.
XX P-PSDB; ADB70362.
XX
XX Diagnosing cancer cells in tissue sample, or determining prognosis or
XX outcome of cancer patient, by calculating ratio of expression levels of
XX genes that are differentially expressed in cancer and non cancer tissues.
PS Claim 67; Page 181-263; 396pp; English.
XX
XX The present invention describes a method (M1) for diagnosing the presence
XX of cancer cells or non-cancer cells in a tissue sample, or determining
XX the prognosis or outcome of a cancer patient. M1 involves providing a set
XX of genes that are differentially expressed in cancerous or non-cancerous
XX conditions, determining the expression levels of the set of genes and
XX calculating a ratio of the expression levels of the differentially
XX expressed genes. M1 is useful for diagnosing the presence of cancer cells
XX or non-cancer cells in a tissue sample, where the cancer is malignant
XX pleural mesothelioma (MPW), lung adenocarcinoma, squamous carcinoma,
XX medulloblastoma, prostate cancer, breast cancer, diffuse large B-cell
XX lymphoma, follicular lymphoma and ovarian cancer, and for determining
XX prognosis or outcome of a cancer patient. The ratio of expression levels
XX of differentially expressed genes is used as an indicator of cancer type,
XX cancer class, and/or cancer prognosis, all of which are useful for
XX determining a course of treatment of a patient. The present sequence
XX encodes a human protein which is used in an example from the present
XX invention.
SQ Sequence 149671 BP; 45600 A; 33308 C; 32389 G; 38374 T; 0 U; 0 Other;
Query Match 1.4%; Score 45; DB 9; Length 149671;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2888 TGAGGCGAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 2932
DB 94008 TGAGGCGAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 93964
RESULT 184
ADJ37140/c
ID ADJ37140 standard; cDNA; 149671 BP.
XX
XX ADJ37140;
XX
XX 22-APR-2004 (first entry)
XX
XX Human malignant pleural mesothelioma (MPW) cDNA #23.
XX
XX Human; malignant pleural mesothelioma; MPW; gene; ss; tumour;
XX lung adenocarcinoma; squamous carcinoma; medulloblastoma;
XX prostate cancer; breast cancer; diffuse large B-cell lymphoma;
XX follicular lymphoma; ovarian cancer; cytostatic.
XX
XX Homo sapiens.
OS
XX
XX US2003219760-A1.
XX
XX 27-NOV-2003.
XX
XX 05-SEP-2002; 2002US-00236031.
XX
XX 05-SEP-2001; 2001US-0317389P.
XX 30-AUG-2002; 2002US-0407431P.
XX
XX (BGHM) BRIGHAM & WOMENS HOSPITAL INC.
XX

XX The invention relates to a method of determining susceptibility of an
 CC individual to joint space narrowing and/or osteophyte development and/or
 CC joint pain comprising identifying whether the individual has at least one
 CC polymorphism in a polynucleotide encoding at least one of the protein
 CC listed in the specification. The methods, composition and agent are
 CC useful for modulating the susceptibility of an individual to joint space
 CC narrowing and/or osteophyte development and/or joint pain that is
 CC associated with a disease, preferably osteoarthritis. The cell line and
 CC the non-human animal are useful for screening for an agent for diagnosing
 CC an individual having susceptibility to joint space narrowing and/or
 CC osteophyte development and/or joint pain. This sequence corresponds to
 CC the polynucleotide encoding a protein listed in the specification. (Note:
 CC The sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences).

SQ Sequence 190117 BP; 47446 A; 48907 C; 48857 G; 44888 T; 0 U; 19 Other;
 Query Match 1.4%; Score 45; DB 10; Length 190117;
 Best Local Similarity 100.0%; Pred. No. 2.7e-10;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 3115
 Db 99468 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 99512

RESULT 187
 ABD33586
 ID ABD33586 standard; DNA; 191584 BP.
 XX ABD33586;
 AC
 XX 18-NOV-2004 (first entry)
 DT
 XX Human cancer-associated (CA) gene HD07-118.
 DS
 XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;
 KM de; cancer; cytostatic.
 XX
 OS Homo sapiens.
 XX
 PN WO2004058146-A2.
 PD 15-JUL-2004.
 PF 15-DEC-2003; 2003WO-US040081.
 XX
 PR 17-DEC-2002; 2002US-00322281.
 XX
 PA (SAGR-) SAGRES DISCOVERY INC.
 XX
 PI Morris DW, Malandro MS;
 XX
 DR WPI; 2004-499109/47.
 XX
 PT Novel human cancer associated protein encoded within open reading frame
 of cancer associated gene, useful as targets for diagnosing cancer.
 PT
 PS Claim 16; SEQ ID NO 800; 182pp; English.
 XX
 CC The invention relates to cancer-associated proteins (CAP) and the cancer-
 CC associated (CA) nucleic acids encoding them. The invention also relates
 CC to a method for treating cancers involving administering to a patient an
 CC inhibitor of CAP, and a method of screening for anticancer activity in a
 CC potential drug involving providing a cell that expresses a CA gene,
 CC contacting a tissue sample derived from a cancer cell with an anticancer
 CC drug candidate and monitoring the effect of the anticancer drug candidate
 CC on expression of the CA gene. The CAP proteins are useful for detecting
 CC cancer associated with expression of a CAP protein in a test cell sample
 CC and for screening for a bioactive agent capable of modulating the
 CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing

CC cancer, involving determining the expression of a CA nucleic acid in a
 CC tissue. This sequence represents a human CA gene of the invention. Note:
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences

SQ Sequence 191584 BP; 57287 A; 37750 C; 38021 G; 58526 T; 0 U; 0 Other;
 Query Match 1.4%; Score 45; DB 13; Length 191584;
 Best Local Similarity 100.0%; Pred. No. 2.7e-10;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 3115
 Db 106736 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 106780

RESULT 188
 ADR67026
 ID ADR67026 standard; DNA; 191584 BP.
 XX ADR67026;
 AC
 XX 18-NOV-2004 (first entry)
 DT
 XX Human cancer associated gene genomic sequence SEQ ID NO:72.
 DE
 XX
 XX Human; cancer associated nucleic acid; cancer associated gene;
 KM cancer; cancer associated protein; CAP; cytostatic; vaccine; gene therapy;
 KM lymphoma; leukemia; human; gene; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO2004074321-A2.
 PD 02-SEP-2004.
 PF 17-FEB-2004; 2004WO-US005000.
 XX
 PR 14-FEB-2003; 2003US-00367094.
 XX
 PR 14-MAR-2003; 2003US-00388838.
 PR 23-SEP-2003; 2003US-00669920.
 PR 15-DEC-2003; 2003US-00737318.
 XX
 PA (SAGR-) SAGRES DISCOVERY INC.
 XX
 PI Morris DW, Malandro MS;
 XX
 DR WPI; 2004-652915/63.
 DR P-PsDB; ADR67028.
 XX
 PT New isolated cancer-associated polynucleotides and polypeptides useful
 for diagnosing, preventing or treating cancers, especially lymphoma and
 PT leukemia, or in screening for agents that modulate cancer.
 PT
 PS Claim 16; SEQ ID NO 72; 166pp; English.
 XX
 CC The present invention describes an isolated cancer associated (CA)
 CC nucleic acid (1). Also described: (1) an expression vector comprising (1)
 CC ; (2) a host cell comprising (1) or the expression vector; (3) a
 CC microarray for detecting a CA nucleic acid; (4) an isolated cancer
 CC associated protein (CAP) polypeptide, encoded within an open reading
 CC frame of a CA sequence; (5) an isolated antibody, or its antigen binding
 CC fragment, that binds to the above polypeptide; (6) a hybridoma that
 CC produces the above monoclonal antibody; (7) a pharmaceutical composition
 CC comprising the above antibody and a pharmaceutical excipient; (8) a kit
 CC for detecting cancer cells, comprising the (monoclonal) antibody
 CC described above; (9) methods for diagnosing cancer or for detecting the
 CC presence or absence of cancer cells in an individual; (10) a method for
 CC inhibiting growth of cancer cells in an individual; (11) a method for
 CC delivering a therapeutic agent to cancer cells in an individual; (12) an
 CC electronic library comprising the above polynucleotide or polypeptide, or
 CC their fragments; (13) methods of screening for anticancer activity or for

CC a bioactive agent capable of modulating the activity of a CAP; (14)
CC methods for detecting cancer associated with expression of a polypeptide
CC in a test cell sample, or with the presence of an antibody in a test
CC serum sample; (15) a method for treating cancers; and (16) a method for
CC inhibiting the expression of CA gene in a cell. The CA sequences have
CC cytostatic activity, and can be used in vaccines, and in gene therapy.
CC The composition and methods are useful for detecting, diagnosing,
CC preventing and treating cancers, especially lymphoma and leukaemia. They
CC may also be used in screening for agents that modulate cancer. The
CC present sequence represents a cancer associated gene genomic DNA
CC sequence, which is used in the exemplification of the present invention.
CC
SQ Sequence 191584 BP; 57287 A; 37750 C; 38021 G; 58526 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 13; Length 191584;
Best Local Similarity 100.0%; Pred. No. 2.7e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3071 CAAGATTGGCCACTGCACCTCGGCGAAGAGAGACT 3115
Db 106736 CAAAGTTGGCCACTGCACCTCGGCGAAGAGAGACT 106780
|||||
RESULT 189
ADX98573/C
ID ADX98573 standard; DNA; 285300 BP.
XX
AC ADX98573;
XX
DT 05-MAY-2005 (first entry)
XX
DE Human D4, zinc and double PHD fingers, family 3 (DPF3) genomic DNA.
XX
XX SNP detection; breast tumor; endocrine disease;
KM gynecology and obstetrics; neoplasm; cytostatic; metastasis;
KM gene therapy; RNA interference; chromosome 14; ds; SNP;
KM single nucleotide polymorphism;
KM D4, zinc and double PHD fingers, family 3; DPF3;
KM guanine-nucleotide exchange factor.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT variation
FT /tag= a
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 486
FT variation
FT /tag= b
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 1745
FT variation
FT /tag= c
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 1922
FT variation
FT /tag= d
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2190
FT variation
FT /tag= e
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2590
FT variation
FT /tag= f
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2637
FT variation
FT /tag= g
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2804
FT variation
FT /tag= h
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2806
FT variation
FT /tag= i
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 2895
FT variation
FT /tag= j
FT /standard_name= "Single nucleotide polymorphism (SNP)"

FT variation
FT 3109
FT /tag= k
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 3185
FT variation
FT /tag= l
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 3355
FT variation
FT /tag= m
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 3642
FT variation
FT /tag= n
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 3805
FT variation
FT /tag= o
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 4236
FT variation
FT /tag= p
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 4331
FT variation
FT /tag= q
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 4509
FT variation
FT /tag= r
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 4959
FT variation
FT /tag= s
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 5009
FT variation
FT /tag= t
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 5676
FT variation
FT /tag= u
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 6507
FT variation
FT /tag= v
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 6695
FT variation
FT /tag= w
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 6717
FT variation
FT /tag= x
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 7131
FT variation
FT /tag= y
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 7873
FT variation
FT /tag= z
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 7922
FT variation
FT /tag= aa
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 8652
FT variation
FT /tag= ab
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 9817
FT variation
FT /tag= ac
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 10272
FT variation
FT /tag= ad
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 10823
FT variation
FT /tag= ae
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 11465
FT variation
FT /tag= af
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 11639
FT variation
FT /tag= ag
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 12177
FT variation
FT /tag= ah
FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 12604
FT variation


```

FT      /*tag= ai
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13363
FT      /*tag= aj
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13454
FT      /*tag= ak
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13540
FT      /*tag= al
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13923
FT      /*tag= am
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      14507
FT      /*tag= an
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      16550
FT      /*tag= ao
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      17641
FT      /*tag= ap
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      18903
FT      /*tag= aq
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      19395
FT      /*tag= ar
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      19527
FT      /*tag= as
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20369
FT      /*tag= at
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20505
FT      /*tag= au
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20562
FT      /*tag= av
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20907
FT      /*tag= aw
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20949
FT      /*tag= ax
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21278
FT      /*tag= ay
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21314
FT      /*tag= az
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21905
FT      /*tag= ba
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      22252
FT      /*tag= bb
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      22941
FT      /*tag= bc
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      23542
FT      /*tag= bd
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      24677
FT      /*tag= be
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      25009
FT      /*tag= bf
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      25618
FT      /*tag= bg

```

```

FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      26082
FT      /*tag= bh
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      26136
FT      /*tag= bi
FT      bi

Query Match      1.4%; Score 45; DB 14; Length 285300;
Best local Similarity 100.0%; Pred. No. 2.6e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      3078 GTGGCACTGCATCCAGCCCTGGGCAACAGAGCAAGCTCTGTCTC 3122
Db      220046 GTGGCACTGCATCCAGCCCTGGGCAACAGAGCAAGCTCTGTCTC 220002

RESULT 190
ADE86352
ID ADE86352 standard; DNA; 300000 BP.
XX
AC ADE86352;
XX
DT 29-JUN-2004 (first entry)
XX
DE Human PRPN11 genomic DNA sequence SEQ ID NO:33.
XX
KW Noonan syndrome; protein tyrosine phosphatase 11; PRPN11; mutant;
KW variant; mutation; chromosome 12; enzyme; gene; ds.
XX
OS Homo sapiens.
XX
PN WC2003029422-A2.
XX
PD 10-APR-2003.
XX
PF 01-OCT-2002; 2002MO-US031290.
XX
PR 01-OCT-2001; 2001US-0326532P.
XX
PA (MOUN ) MOUNT SINAI SCHOOL MEDICINE.
XX
PI Gelb BD, Tartaglia M;
XX
DR WPI; 2003-381624/36.
XX
PT Diagnosing and treating Noonan syndrome in a subject using a mutation in
PT a protein tyrosine phosphatase 11 gene with increased expression or
PT activity.
XX
PS Claim 24; SEQ ID NO 33; 262pp; English.
XX
CC The present invention describes a method for diagnosing Noonan syndrome
CC in a subject. The method comprises detecting a mutation in the protein
CC tyrosine phosphatase 11 (PRPN11) gene in a subject, where the mutation
CC results in increased PRPN11 expression or activity as compared to
CC control. The human PRPN11 gene is located on chromosome 12, more
CC specifically to 12q24. Also described: (1) a kit for diagnosing Noonan
CC syndrome, comprising an oligonucleotide that specifically hybridises to
CC or adjacent to a site of mutation of a PRPN11 gene that results in
CC increased activity of a PRPN11 protein encoded by the gene or an antibody
CC that specifically recognises a mutation in a PRPN11 protein, and
CC instructions for use; (2) diagnosing Noonan syndrome in a subject,
CC comprising assessing the level of expression or activity of a PRPN11
CC protein in the test subject, and comparing it to the level of expression
CC or activity in a control subject, where an increased expression or basal
CC activity of the PRPN11 protein in the test subject compared to the
CC control is indicative of Noonan syndrome; (3) treating Noonan syndrome in
CC a patient, comprising administering an agent that modulates the
CC expression or activity of a PRPN11 protein in association with a carrier;
CC (4) an isolated PRPN11 variant comprising a mutation resulting in
CC increased level of PRPN11 activity; (5) an isolated cell comprising a
CC vector comprising a nucleic acid encoding the PRPN11 variant of (4),
CC operatively associated with an expression control sequence; (6) an

```

CC isolated nucleic acid encoding the PRPN11 variant of (4); and (7) an
CC isolated oligonucleotide which specifically hybridises to the nucleic
CC acid of (6). The methods and compositions of the present invention are
CC useful for diagnosing and treating a disorder associated with the
CC aberrant expression and/or activity of the PRPN11 gene, specifically
CC Noonan syndrome. The present sequence represents human PRPN1 genomic
CC DNA, which is given in the exemplification of the present invention.
XX
SQ Sequence 300000 BP; 84671 A; 64420 C; 64260 G; 85849 T; 0 U; 800 Other;

Query Match 1.4%; Score 45; DB 10; Length 300000;
Best Local Similarity 100.0%; Pred.No. 2.6e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCACATGCATCCAGCTGGGCAACAGACAAAGACTCTGTCTC 3122
Db 105945 GTGCACATGCATCCAGCTGGGCAACAGACAAAGACTCTGTCTC 105989

RESULT 191
AD014076
ID AD014076 standard; DNA; 300001 BP.
XX
XX AD014076;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human protein tyrosine phosphatase 11 gene sequence SEQ ID NO:33.
XX
XX protein tyrosine phosphatase gene 11; PRPN11; enzyme;
KM protein tyrosine phosphatase gene 11 variant; PRPN11 variant;
KM haematologic disorder; mutation; increased PRPN1 activity; cytostatic;
KM neutroprotective; PRPN1 modulator; acute lymphoblastic leukaemia; ALL;
KM acute myeloid leukaemia; AML; juvenile myelomonocytic leukaemia; JMML;
KM myelodysplastic syndrome; MDS; cancer; pre-cancerous condition;
KM lung cancer; colorectal cancer; pancreatic cancer; bladder cancer;
KM kidney cancer; thyroid cancer; melanoma; leukaemia; human; chromosome 12;
KW gene; ds.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX
FH Key Location/Qualifiers
FT 123211..123604
FT /*tag= a
FT /number= 1
FT 123591..248877
FT /number= 1
FT CDS /tag= b
FT /product= "PRPN11"
FT /transl_except= (pos:246260..246262,aa:Arg)
FT /transl_except= (pos:246299..246301,aa:Pro)
FT 123605..136830
FT /*tag= c
FT /number= 1
FT 136831..136953
FT /*tag= d
FT /number= 2
FT 136954..194430
FT /*tag= e
FT /number= 2
FT 194431..194625
FT /*tag= f
FT /number= 3
FT 194626..197307
FT /*tag= g
FT /number= 3
FT 197308..197500
FT /*tag= h
FT /number= 4
FT 197501..198676
FT /*tag= i
FT /number= 4
FT 198677..198793
FT exon

FT /*tag= j
FT /number= 5
FT 198794..200062
FT /*tag= k
FT /number= 5
FT 200063..200176
FT /*tag= l
FT /number= 6
FT 200177..217056
FT /*tag= m
FT /number= 6
FT 217057..217153
FT /*tag= n
FT /number= 7
FT 217154..221763
FT /*tag= o
FT /number= 7
FT 221764..221843
FT /*tag= p
FT /number= 8
FT 221844..221969
FT /*tag= q
FT /number= 8
FT 221970..222128
FT /*tag= r
FT /number= 9
FT 222129..226186
FT /*tag= s
FT /number= 9
FT 226187..226318
FT /*tag= t
FT /number= 10
FT 226319..230587
FT /*tag= u
FT /number= 10
FT 230588..230742
FT /*tag= v
FT /number= 11
FT 230743..232555
FT /*tag= w
FT /number= 11
FT 232556..232623
FT /*tag= x
FT /number= 12
FT 232624..233136
FT /*tag= y
FT /number= 12
FT 233137..233288
FT /*tag= z
FT /number= 13
FT 233289..246256
FT /*tag= aa
FT /number= 13
FT 246257..246369
FT /*tag= ab
FT /number= 14
FT 246370..248807
FT /*tag= ac
FT /number= 14
FT 248808..248909
FT /*tag= ad
FT /number= 15
FT 248910..249937
FT /*tag= ae
FT /number= 15
FT 249938..250510
FT /*tag= af
FT /number= 16
FT exon
XX
XX WO2004041216-A2.
XX
XX 21-MAY-2004.
XX

PF 05-NOV-2003; 2003MO-US035349.
 XX
 PR 05-NOV-2002; 2002US-0424170P.
 XX
 PA (MOUN) MOUNT SINAI SCHOOL MEDICINE.
 PA (UNIV-) UNIVERSITÄTSKLINIKUM FREIBURG.
 PI Gelb BD, Tartaglia M, Niemeyer C;
 XX WPI: 2004-400526/37.
 DR P-PSDB; AD014045.
 XX
 PT Novel protein tyrosine phosphatase gene 11 variant, useful for
 XX characterizing cancerous and precancerous conditions.
 PS Claim 12; SEQ ID NO 33; 279pp; English.
 XX
 CC The present invention describes an isolated protein tyrosine phosphatase
 CC gene 11 (PTPNI1) variant (I) associated with haematologic disorders, and
 CC comprising a mutation resulting in an increased level of PTPNI1 activity,
 CC where the mutation corresponds to an amino acid substitution selected
 CC from Asn58Tyr, Gly60Val, Asp61Tyr, Asp61Val, Glu69Lys, Phe71Lys,
 CC Phe71Leu, Ala72Thr, Ala72Val, Ala72Asp, Glu76Lys, Glu76Gln, Glu76Val,
 CC Glu76Gly, Glu76Ala, Pro491Ser, Pro491Leu, Ser502Pro, Gly503Arg,
 CC Gly503Ala, Thr507Lys, Glu510Lys, and combinations of them, in the human
 CC PTPNI1 593 amino acid sequence of SEQ ID NO:2(AD014045). Also described:
 CC (1) characterizing (M1) a haematologic disorder in a subject, which
 CC involves detecting a mutation in the PTPNI1 gene in the subject, where
 CC the mutation results in an increased expression or activity of a PTPNI1
 CC protein encoded by the gene as compared to a control, or assessing the
 CC level of expression or activity of a PTPNI1 protein in the test subject
 CC and comparing it to a control; (2) a kit (I1) for diagnosing a
 CC haematologic disorder; (3) treating (M2) a haematologic disorder in a
 CC patient, which involves administering an agent that modulates the
 CC expression or activity of PTPNI1 protein and a carrier; (4) an isolated
 CC cell (I11) comprising a vector having (I1), operatively associated with an
 CC expression control sequence; (5) an isolated nucleic acid encoding (I1);
 CC and (6) characterizing (M3) a cancer or pre-cancerous condition in a
 CC subject, which involves detecting a mutation in the PTPNI1 gene in the
 CC subject, where the mutation results in an increased expression or
 CC activity of a PTPNI1 protein encoded by the gene as compared to a
 CC control. (I1) has cytostatic and neuroprotective activities, and can be
 CC used as a modulator of PTPNI1 activity. (M2) is useful for treating a
 CC haematologic disorder such as acute lymphoblastic leukaemia (ALL), acute
 CC myeloid leukaemia (AML), juvenile myelomonocytic leukaemia (JMML) and
 CC myelodysplastic syndrome (MDS), in a patient (M3) is useful for
 CC characterizing a cancer or pre-cancerous condition in a subject, where
 CC the cancer is lung cancer, colorectal cancer, pancreatic cancer, bladder
 CC cancer, kidney cancer, thyroid cancer, melanoma and leukaemia. The
 CC present sequence represents the human PTPNI1 gene sequence, which is used
 CC in the exemplification of the present invention. The human PTPNI1 gene is
 CC located on chromosome 12, more specifically to 12q24.
 XX
 SQ Sequence 300001 BP; 84672 A; 64420 C; 64260 G; 85849 T; 0 U; 800 Other;
 Query Match 1.4%; Score 45; DB 12; Length 300001;
 Best Local Similarity 100.0%; Pred. No. 2, 6e-10;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3078 GTGGCACTGCATCTCCAGCTGGGCAACAGACAAAGACTCTGTCTC 3122
 Db 105945 GTGGCACTGCATCTCCAGCTGGGCAACAGACAAAGACTCTGTCTC 105989
 RESULT 192
 ADJ12734
 ID ADJ12734 standard; DNA; 116 BP.
 XX
 AC ADJ12734;
 XX
 DT 20-MAY-2004 (first entry)
 XX
 DE DNA fragment of a BAC clone that encodes a human secreted protein Seg588.

XX
 KW human; secreted; cancer; haematopoietic disease; anaemia;
 KW multiple myeloma; reproductive system disorder; prostaticitis;
 KW inguinal hernia; musculoskeletal disease; systemic lupus erythematosus;
 KW gout; cardiovascular disease; arrhythmia; hypernatraemia; fetal disease;
 KW fetal alcohol syndrome; Down's syndrome; excretory disease;
 KW urinary incontinence; renal disorder; neural; sensory disease;
 KW Alzheimer's disease; meningitis; respiratory disease; emphysema;
 KW occupational lung disease; endocrine disease; diabetes;
 KW glomerulonephritis; digestive disease; portal hypertension;
 KW irritable bowel syndrome; epithelial disease; scleroderma;
 KW epidermolysis bullosa; cytostatic; antineoplastic; antiarrhythmic;
 KW antihistaminic; anti-HIV; immunosuppressive; antiinflammatory;
 KW antipsoriatic; antibacterial; osteopathic; dermatologic; antigout;
 KW immunomodulator; antiarrhythmic; cardiac; nootropic; antilipemic;
 KW nephrotoxic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;
 KW antidiabetic; anabolic; hypertensive; vulnery; ds.
 XX
 OS Homo sapiens.
 XX
 PN US2004010132-A1.
 XX
 PD 15-JAN-2004.
 XX
 PF 30-OCT-2001; 2001US-00984429.
 XX
 PR 09-OCT-1997; 97US-0061463P.
 PR 09-OCT-1997; 97US-0061527P.
 PR 09-OCT-1997; 97US-0061529P.
 PR 09-OCT-1997; 97US-0061532P.
 PR 09-OCT-1997; 97US-0061536P.
 PR 09-OCT-1997; 97US-0071498P.
 PR 08-OCT-1998; 98WO-US021142.
 PR 08-APR-1999; 99US-00288143.
 PR 01-NOV-2000; 2000US-0244591P.
 XX
 PA (ROSE/) ROSEN C A.
 PA (BREW/) BREWER L A.
 PA (DUAN/) DUAN R D.
 PA (RUBE/) RUBEN S M.
 PA (FLOR/) FLORENCE K A.
 PA (GREEN/) GREENE J M.
 PA (YOUN/) YOUNG P E.
 PA (FERR/) FERRIE A M.
 PA (YUGG/) YU G.
 PA (FLOR/) FLORENCE C.
 PA (EBNE/) EBNER R.
 PA (OLSE/) OLSEN H.
 XX
 PI Rosen CA, Brewer LA, Duan RD, Ruben SM, Florence KA, Greene JM,
 PI Young PE, Ferrie AM, Yu G, Florence C, Ebner R, Olsen H;
 XX WPI: 2004-090518/09.
 DR
 XX
 PT New isolated nucleic acids and polypeptides, useful for diagnosing,
 PT treating, preventing or ameliorating diseases or disorders e.g. cancer,
 PT anemia, arthritis, asthma, inflammatory bowel disease or Alzheimer's
 PT disease.
 XX
 PS Disclosure; SEQ ID NO 588; 286pp; English.
 XX
 CC This invention relates to novel polynucleotides encoding human secreted
 CC proteins. Specifically, it refers to the vectors, host cells, recombinant
 CC and synthetic methods for producing human polynucleotides, polypeptides
 CC and antibodies. Furthermore, it relates to screening methods to identify
 CC agonists and antagonists that can be used to inhibit or enhance the
 CC production and function of the secreted proteins. The present invention
 CC describes these compositions as useful for diagnosing, treating or
 CC preventing disorders such as cancer, haematopoietic diseases including
 CC anaemia and multiple myeloma, reproductive system disorders including
 CC prostaticitis and inguinal hernia, musculoskeletal diseases including
 CC systemic lupus erythematosus and gout, cardiovascular disease including
 CC arrhythmia and hypernatraemia, mixed fetal diseases including fetal

CC alcohol syndrome and Down's syndrome, excretory diseases including
CC urinary incontinence and renal disorders, neural or sensory disease
CC including Alzheimer's disease and meningitis, respiratory disease
CC including emphysema and occupational lung disease, endocrine diseases
CC including diabetes and glomerulonephritis, digestive diseases including
CC portal hypertension and irritable bowel syndrome and connective tissue or
CC epithelial diseases including scleroderma and epidermolysis bullosa. As
CC such, there are various activities such as cytostatic, antianemic,
CC antiarthritic, antisthenic, anti-HIV, immunosuppressive,
CC antiinflammatory, antiparastic, antibacterial, osteopathic,
CC dermatological, antipain, immunomodulator, antiarrhythmic, cardiant,
CC neurotic, antileptic, nephrotoxic, uropathic, neuroprotective,
CC antiparkinsonian, tranquilizer, antidiabetic, anabolic, hypotensive and
CC vulnerary. This polynucleotide is a DNA fragment of a BAC clone that
CC encodes a human secreted protein of the invention. NOTE: This sequence
CC does not appear in the printed specification but has been obtained in
CC electronic format from the US patent office at the following web site
CC www.segdata.uspto.gov/sequence.html; Document ID: 20040010132.

XX Sequence 116 BP; 35 A; 29 C; 35 G; 17 T; 0 U; 0 Other;

Query Match 1.4%; Score 44; DB 12; Length 116;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3079 TGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 3122
Db 63 TGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 106

RESULT 193

AAK67381
ID AAK67381 standard; DNA; 126 BP.

AC AAK67381;

DT 06-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22193.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KW Cystostatic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

OS Homo sapiens.

XX WO200157182-A2.

PD 09-AUG-2001.

PF 17-JAN-2001; 2001WO-US001354.

XX 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0188874P.

PR 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205151P.

PR 07-JUN-2000; 2000US-0209467P.

PR 28-JUN-2000; 2000US-0214866P.

PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-0216474P.

PR 07-JUL-2000; 2000US-0216880P.

PR 11-JUL-2000; 2000US-0217487P.

PR 11-JUL-2000; 2000US-0217496P.

PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.

PR 14-AUG-2000; 2000US-0224519P.

PR 14-AUG-2000; 2000US-0225213P.

PR 14-AUG-2000; 2000US-0225214P.

PR 14-AUG-2000; 2000US-0225266P.

PR 14-AUG-2000; 2000US-0225267P.

PR 14-AUG-2000; 2000US-0225268P.

PR 14-AUG-2000; 2000US-0225270P.

PR 14-AUG-2000; 2000US-0225447P.

PR 14-AUG-2000; 2000US-0225757P.

PR 14-AUG-2000; 2000US-0225758P.

PR 14-AUG-2000; 2000US-0225759P.

PR 18-AUG-2000; 2000US-0226279P.

PR 22-AUG-2000; 2000US-0226881P.

PR 22-AUG-2000; 2000US-0226886P.

PR 22-AUG-2000; 2000US-0227182P.

PR 23-AUG-2000; 2000US-0227099P.

PR 30-AUG-2000; 2000US-0228924P.

PR 01-SEP-2000; 2000US-0228287P.

PR 01-SEP-2000; 2000US-0228343P.

PR 01-SEP-2000; 2000US-0229344P.

PR 01-SEP-2000; 2000US-0229345P.

PR 05-SEP-2000; 2000US-0229509P.

PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.

PR 06-SEP-2000; 2000US-0230438P.

PR 08-SEP-2000; 2000US-0231242P.

PR 08-SEP-2000; 2000US-0231243P.

PR 08-SEP-2000; 2000US-0231244P.

PR 08-SEP-2000; 2000US-0231413P.

PR 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.

PR 08-SEP-2000; 2000US-0232081P.

PR 12-SEP-2000; 2000US-0231968P.

PR 14-SEP-2000; 2000US-0232397P.

PR 14-SEP-2000; 2000US-0232398P.

PR 14-SEP-2000; 2000US-0232399P.

PR 14-SEP-2000; 2000US-0232400P.

PR 14-SEP-2000; 2000US-0232401P.

PR 14-SEP-2000; 2000US-0233063P.

PR 14-SEP-2000; 2000US-0233064P.

PR 14-SEP-2000; 2000US-0233065P.

PR 21-SEP-2000; 2000US-0234223P.

PR 21-SEP-2000; 2000US-0234274P.

PR 25-SEP-2000; 2000US-0234997P.

PR 25-SEP-2000; 2000US-0234998P.

PR 26-SEP-2000; 2000US-0235464P.

PR 27-SEP-2000; 2000US-0235834P.

PR 27-SEP-2000; 2000US-0235836P.

PR 29-SEP-2000; 2000US-0236327P.

PR 29-SEP-2000; 2000US-0236367P.

PR 29-SEP-2000; 2000US-0236368P.

PR 29-SEP-2000; 2000US-0236369P.

PR 29-SEP-2000; 2000US-0236370P.

PR 02-OCT-2000; 2000US-0236802P.

PR 02-OCT-2000; 2000US-0237037P.

PR 02-OCT-2000; 2000US-0237038P.

PR 02-OCT-2000; 2000US-0237039P.

PR 02-OCT-2000; 2000US-0237040P.

PR 13-OCT-2000; 2000US-0239933P.

PR 13-OCT-2000; 2000US-0239937P.

PR 20-OCT-2000; 2000US-0240960P.

PR 20-OCT-2000; 2000US-0241221P.

PR 20-OCT-2000; 2000US-0241765P.

PR 20-OCT-2000; 2000US-0241766P.

PR 20-OCT-2000; 2000US-0241787P.

PR 20-OCT-2000; 2000US-0241808P.

PR 20-OCT-2000; 2000US-0241809P.

PR 20-OCT-2000; 2000US-0241826P.

PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.

PR 08-NOV-2000; 2000US-0246475P.

PR 08-NOV-2000; 2000US-0246476P.

PR 08-NOV-2000; 2000US-0246477P.

PR 08-NOV-2000; 2000US-0246523P.

PR 08-NOV-2000; 2000US-0246524P.

PR	06-SEP-2000	2000US-0230438P	
PR	08-SEP-2000	2000US-0231242P	
PR	08-SEP-2000	2000US-0231243P	
PR	08-SEP-2000	2000US-0231244P	
PR	08-SEP-2000	2000US-0231413P	
PR	08-SEP-2000	2000US-0231414P	
PR	08-SEP-2000	2000US-0232080P	
PR	08-SEP-2000	2000US-0232081P	
PR	12-SEP-2000	2000US-0231968P	
PR	14-SEP-2000	2000US-0232397P	
PR	14-SEP-2000	2000US-0232398P	
PR	14-SEP-2000	2000US-0232399P	
PR	14-SEP-2000	2000US-0232400P	
PR	14-SEP-2000	2000US-0232401P	
PR	14-SEP-2000	2000US-0233063P	
PR	14-SEP-2000	2000US-0233064P	
PR	14-SEP-2000	2000US-0233065P	
PR	21-SEP-2000	2000US-0234223P	
PR	21-SEP-2000	2000US-0234224P	
PR	21-SEP-2000	2000US-0234274P	
PR	25-SEP-2000	2000US-0234997P	
PR	25-SEP-2000	2000US-0234998P	
PR	25-SEP-2000	2000US-0234999P	
PR	27-SEP-2000	2000US-0235994P	
PR	27-SEP-2000	2000US-0235994P	
PR	29-SEP-2000	2000US-0235936P	
PR	29-SEP-2000	2000US-0235937P	
PR	29-SEP-2000	2000US-0236802P	
PR	02-OCT-2000	2000US-0237037P	
PR	02-OCT-2000	2000US-0237037P	
PR	02-OCT-2000	2000US-0237038P	
PR	02-OCT-2000	2000US-0237039P	
PR	02-OCT-2000	2000US-0237040P	
PR	13-OCT-2000	2000US-0239995P	
PR	13-OCT-2000	2000US-0239997P	
PR	20-OCT-2000	2000US-0240960P	
PR	20-OCT-2000	2000US-0241211P	
PR	20-OCT-2000	2000US-0241785P	
PR	20-OCT-2000	2000US-0241786P	
PR	20-OCT-2000	2000US-0241787P	
PR	20-OCT-2000	2000US-0241808P	
PR	20-OCT-2000	2000US-0241809P	
PR	01-NOV-2000	2000US-0244517P	
PR	08-NOV-2000	2000US-0246474P	
PR	08-NOV-2000	2000US-0246475P	
PR	08-NOV-2000	2000US-0246476P	
PR	08-NOV-2000	2000US-0246477P	
PR	08-NOV-2000	2000US-0246478P	
PR	08-NOV-2000	2000US-0246523P	
PR	08-NOV-2000	2000US-0246524P	
PR	08-NOV-2000	2000US-0246525P	
PR	08-NOV-2000	2000US-0246526P	
PR	08-NOV-2000	2000US-0246527P	
PR	08-NOV-2000	2000US-0246528P	
PR	08-NOV-2000	2000US-0246529P	
PR	08-NOV-2000	2000US-0246609P	
PR	08-NOV-2000	2000US-0246611P	
PR	08-NOV-2000	2000US-0246613P	
PR	08-NOV-2000	2000US-0246615P	
PR	17-NOV-2000	2000US-0249212P	
PR	17-NOV-2000	2000US-0249213P	
PR	17-NOV-2000	2000US-0249215P	
PR	17-NOV-2000	2000US-0249216P	
PR	17-NOV-2000	2000US-0249217P	
PR	17-NOV-2000	2000US-0249218P	

PR	17-NOV-2000	2000US-0249244P
PR	17-NOV-2000	2000US-0249245P
PR	17-NOV-2000	2000US-0249264P
PR	17-NOV-2000	2000US-0249265P
PR	17-NOV-2000	2000US-0249287P
PR	17-NOV-2000	2000US-0249309P
PR	17-NOV-2000	2000US-0249330P
PR	01-DEC-2000	2000US-0250160P
PR	01-DEC-2000	2000US-0250391P
PR	01-DEC-2000	2000US-0251030P
PR	05-DEC-2000	2000US-0251988P
PR	05-DEC-2000	2000US-0256719P
PR	06-DEC-2000	2000US-0251479P
PR	08-DEC-2000	2000US-0251856P
PR	08-DEC-2000	2000US-0251868P
PR	08-DEC-2000	2000US-0251869P
PR	08-DEC-2000	2000US-0251989P
PR	08-DEC-2000	2000US-0251990P
PR	11-DEC-2000	2000US-0254037P
PR	05-JAN-2001	2000US-0259678P

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-483426/52.

PS Disclosure: SEQ ID NO 29269; 3071PP + Sequence Listing; English.

Disclosure; SEQ ID NO 29269; 3071pp + Sequence Listing; English.

AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91521. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK7694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention

Sequence 139 BP; 21 A; 37 C; 32 G; 49 T; 0 U; 0 Other;

Query Match	1.4%	Score 44;	DB 4;	Length 139;
Best Local Similarity	100.0%	Pred. No. 1e-09;		
Matches 44;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

RESULT 195

AAC21835/C
 ID AAC21835 standard; cDNA; 145 BP.

AAC21835;

DT 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 25910.

KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;

KW gene therapy; chromosome mapping; ss.

PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-024617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251866P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0255678P.
PA (HUMA-) HUMAN GENOME SCT INC.
XX
XX
PI Rosen CA, Barash SC, Ruben SW;
XX
DR MPI; 2001-502630/55.
XX
PT Polynucleotides encoding digestive system antigens, useful for
PT diagnosing, treating, preventing and/or prognosing disorders of the
PT digestive system, particularly cancer and cancer metastases.
XX
PS Dieclozure; SEQ ID NO 4765; 986pp; English.

XX
CC The present invention provides the protein and coding sequences of a
CC number of human digestive system antigens. These can be used in the
CC diagnosis, treatment and prevention of digestive system disorders,
CC including cancer, Meckel's diverticulum, bacterial or parasitic
CC infections, appendicitis, Hirschsprung's disease, chronic colitis or
CC ulcerative colitis. The present sequence is a genomic DNA fragment
CC encoding a digestive system antigen of the invention
XX
SQ Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;
Query Match 1.4%; Score 44; DB 4; Length 182;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 3121
Db 139 GTGCCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 182
RESULT 197
AAS32121
ID AAS32121 standard; DNA; 182 BP.
XX
AC AAS32121;
XX
DT 04-DEC-2001 (first entry)
XX
DE Human liver associated genomic DNA #295.
XX
KW Liver associated protein; human; mouse; rabbit; goat; horse; cat; dog;
KW chicken; sheep; immunosuppressive; antiarthritic; vasotropic;
KW antihemematic; antiproliferative; cytostatic; cardian; neuroprotective;
KW cerebroprotective; nootropic; antibacterial; virumide; fungicide; cancer;
KW ophthalmological; vulnecary; gene therapy; autoimmune disease; neoplasm;
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
KW cerebrovascular disorder; nervous system disorder; bacterial infection;
KW fungal infection; viral infection; ocular disorder; endocrine disorder;
KW gastrointestinal disorder; renal disorder; respiratory disorder;
KW wound healing; skin aging; organ transplantation; tissue regeneration;
KW anti-fertility.
XX
OS Homo sapiens.
XX
FN WO200155355-A1.
XX
PD 02-AUG-2001.
XX
PP 17-JAN-2001; 2001WO-US001351.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.

PR 14-AUG-2000; 2000US-0225267P.
 PR 14-AUG-2000; 2000US-0225268P.
 PR 14-AUG-2000; 2000US-0225270P.
 PR 14-AUG-2000; 2000US-0225447P.
 PR 14-AUG-2000; 2000US-0225757P.
 PR 14-AUG-2000; 2000US-0225758P.
 PR 14-AUG-2000; 2000US-0225759P.
 PR 18-AUG-2000; 2000US-0226279P.
 PR 22-AUG-2000; 2000US-0226681P.
 PR 22-AUG-2000; 2000US-0226686P.
 PR 22-AUG-2000; 2000US-0227182P.
 PR 22-AUG-2000; 2000US-0227009P.
 PR 30-AUG-2000; 2000US-0228924P.
 PR 01-SEP-2000; 2000US-0229287P.
 PR 01-SEP-2000; 2000US-0229343P.
 PR 01-SEP-2000; 2000US-0229344P.
 PR 01-SEP-2000; 2000US-0229345P.
 PR 05-SEP-2000; 2000US-0229309P.
 PR 05-SEP-2000; 2000US-0229513P.
 PR 06-SEP-2000; 2000US-0230437P.
 PR 08-SEP-2000; 2000US-0231242P.
 PR 08-SEP-2000; 2000US-0231243P.
 PR 08-SEP-2000; 2000US-0231244P.
 PR 08-SEP-2000; 2000US-0231413P.
 PR 08-SEP-2000; 2000US-0232080P.
 PR 08-SEP-2000; 2000US-0232081P.
 PR 12-SEP-2000; 2000US-0231968P.
 PR 14-SEP-2000; 2000US-0232387P.
 PR 14-SEP-2000; 2000US-0232388P.
 PR 14-SEP-2000; 2000US-0232399P.
 PR 14-SEP-2000; 2000US-0232400P.
 PR 14-SEP-2000; 2000US-0232401P.
 PR 14-SEP-2000; 2000US-0233063P.
 PR 14-SEP-2000; 2000US-0233064P.
 PR 14-SEP-2000; 2000US-0233065P.
 PR 21-SEP-2000; 2000US-0234223P.
 PR 21-SEP-2000; 2000US-0234224P.
 PR 25-SEP-2000; 2000US-0234997P.
 PR 25-SEP-2000; 2000US-0234998P.
 PR 26-SEP-2000; 2000US-0234984P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 13-OCT-2000; 2000US-0239937P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241221P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241826P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.

PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246528P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246509P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.
 PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249264P.
 PR 17-NOV-2000; 2000US-0249265P.
 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251899P.
 PR 11-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 (HUMA-) HUMAN GENOME SCI INC.
 PA Rosen CA, Barash SC, Ruben SM;
 PI WPI, 2001-45726/49.
 XX
 XX
 XX Isolated nucleic acid molecule encoding a human liver related protein is
 PT used in preventing, treating or ameliorating disorders of the liver
 PT particularly cancer of the liver.
 XX
 XX
 PS Claim 1; SEQ ID NO 597; 526pp; English.
 XX
 XX Sequences AAS31827-AAS32182 represent genomic DNA molecules, which encode
 CC the liver associated polypeptides of the invention. Liver associated
 CC polypeptides and their associated polynucleotides are useful in the
 CC diagnosis, treatment and prevention of various types of disorders in e.g.
 CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A
 CC pathological condition can be determined by detecting the presence or
 CC absence of a mutation in a liver associated polynucleotide. The treatable
 CC disorders include autoimmune diseases such as rheumatoid arthritis,
 CC hyperproliferative disorders such as neoplasms of the breast or liver,
 CC cardiovascular disorders such as cardiac arrest, cerebrovascular
 CC disorders such as cerebral ischemia, nervous system disorders such as
 CC Alzheimer's disease, infections caused by bacteria, viruses and fungi,
 CC ocular disorders such as corneal infection, endocrine disorders such as
 CC premature labour and infertility, gastrointestinal disorders such as
 CC Crohn's disease, renal disorders such as glomerulonephritis and
 CC respiratory disorders such as asthma and pleurisy. The polypeptides can
 CC also be used to aid wound healing, to prevent skin aging due to sunburn,
 CC to maintain organs before transplantation, to regenerate tissues and in
 CC chemotaxis. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly

CC from WIP0 at ftp.wipo.int/pub/published_pct_sequences
XX Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;
SQ

Query Match 1.4%; Score 44; DB 5; Length 182;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 3121
DB 139 GTGGCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 182

RESULT 198
ABN90476
ID ABN90476 standard; DNA; 182 BP.
AC
XX ABN90476;
XX
XX 24-JUL-2002 (first entry)
XX
XX
DE Human liver antigen HHLAB49 genomic sequence. SEQ ID NO:597.
XX
XX Human; liver antigen; liver disorder; hepatic disorder; infection;
KW hepatitis; viral; parasitic; bacterial; fungal; inflammatory condition;
KW cirrhosis; granulomatous hepatitis; toxin damage; drug damage;
KW autoimmune disease; Wilson's disease; primary biliary cirrhosis;
KW neoplastic disease; cancer; tumour; portal hypertension;
KW gastrointestinal disorder; hepatitis; drug screening; gene therapy;
KW chromosome mapping; forensic analysis; antibody preparation;
KW hepatotropic; cytosolic; antiinflammatory; virulence; antibacterial;
KW fungicide; parasiticide; antidote; immunosuppressive; gene; ds.
XX
XX
OS Homo sapiens.
XX
XX US2002042096-A1.
XX
XX
PD 11-APR-2002.
XX
XX
PF 17-JAN-2001; 2001US-00764887.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 28-JUN-2000; 2000US-0214886P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 22-AUG-2000; 2000US-0226688P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0228287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 08-SEP-2000; 2000US-0231413P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234977P.
PR 27-SEP-2000; 2000US-0235834P.
PR 29-SEP-2000; 2000US-0236327P.

PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241809P.
PR 01-NOV-2000; 2000US-0244617P.
PR 17-NOV-2000; 2000US-0244929P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
XX
XX
XX (ROSE/) ROSEN C A.
PA (RUBEN/) RUBEN S M.
PA (BARA/) BARASH S C.
XX
XX
XX Rosen CA, Ruben SM, Barash SC;
PI
XX
XX WPI, 2002-381944/41.
XX
XX
XX New nucleic acid encoding human liver antigens, useful for diagnosis,
PT treatment and prevention of e.g. hepatitis and hepatic cancer, also
PT related polypeptides and antibodies.
XX
XX
XX Disclosure: SEQ ID NO 597; 181pp; English.

XX
XX The invention relates to 145 novel human liver antigens (ABP40831-
CC ABP40975) and to cDNAs encoding them (ABN90036-ABN90180), and also
CC encompasses polypeptides 90% identical and polynucleotides 95% identical
CC to the sequences of the invention. The invention additionally relates to
CC recombinant vectors and host cells comprising human liver antigen
CC polynucleotides, antibodies against human liver antigens, and the use of
CC liver antigen polynucleotides and polypeptides in diagnosing, treating,
CC prognosing or preventing various disorders of the liver. Such conditions
CC include viral infections (e.g., cytomegalovirus, Epstein-Barr virus,
CC hepatitis A virus, hepatitis B virus and hepatitis C virus), parasitic
CC infections (e.g., *Clonorchis sinensis*, *Echinococcus granulosus* and
CC *Entamoeba histolytica*), and also bacterial and fungal infections. Other
CC disorders that may be treated include inflammatory conditions (e.g.,
CC cirrhosis and granulomatous hepatitis), damage caused by drugs or toxins,
CC autoimmune diseases (e.g. Wilson's disease, primary biliary cirrhosis,
CC neoplastic disorders (e.g., adenomas, haemangiomas and hepatocellular
CC carcinoma), portal hypertension, or gastrointestinal disorders (e.g.,
CC peptic ulcers, gastritis and peritoneal diseases). Liver antigen
CC polypeptides and polynucleotides may also be used in screening for
CC compounds which modulate liver antigen expression or activity. The
CC polynucleotides may further be used for gene therapy, chromosome mapping,
CC in the identification of individuals and in forensic analysis, and the
CC polypeptides may be used as molecular weight markers or to prepare
CC antibodies useful in disease diagnosis, drug targeting and phenotyping.
CC Sequences ABN90182-ABN90537 represent human liver antigen genomic
CC sequences. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from the USPTO at seqdata.uspto.gov/sequence/

XX
SQ Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;
XX

Query Match 1.4%; Score 44; DB 6; Length 182;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 3121
DB 139 GTGGCACTGCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 182

RESULT 199
ID ADJ15389 standard; DNA; 182 BP.
XX
AC ADJ15389;
XX
DT 20-MAY-2004 (first entry)
XX
DE Human liver-related genomic DNA - SEQ ID 597.
XX
KW liver; vitruide; cystic; antibacterial; antiparasitic; hepatotropic;
KW antiinflammatory; cytostatic; litholytic; antirheumatic; antithrombotic;
KW neuroprotective; antidiabetic; anticoagulant; chromolytic;
KW antiarteriosclerotic; cardiant; haemostatic; antiarrhythmic;
KW ophthalmological; antiarteriosclerotic; vasotropic; osteopathic;
KW neotropic; antiparkinsonian; anticonvulsant; neuroleptic; vasotropic;
KW cytostatic; gynaecological; viral; fungal; bacterial;
KW parasitic infection; cirrhosis; Wilson's disease;
KW gastrointestinal disorder; pancreatic; gallbladder; immune; blood;
KW hyperproliferative; cardiovascular; respiratory; musculoskeletal system;
KW neurological; endocrine; reproductive system; developmental; inherited;
KW human; da.
XX
OS Homo sapiens.
XX
PN US2003077602-A1.
XX
PD 24-Apr-2003.
XX
PF 14-FEB-2002; 2002US-00073961.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205151P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234232P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 25-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.

PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 06-DEC-2000; 2000US-0256719P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PR 17-JAN-2001; 2001US-00764887.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM, Barash SC;
XX
XX WPI, 2003-765398/72.
XX
XX New liver related polypeptide, useful for diagnosis, treatment and/or
XX prevention of liver, gastrointestinal, pancreatic, immune, blood related,
XX endocrine, reproductive, hyperproliferative or reproductive disorders.
XX
XX Disclosure; SEQ ID NO 597; 181pp; English.
XX
XX The invention relates to a novel isolated, liver related polypeptide. The
XX polypeptide of the invention demonstrates virucide, fungicide,
XX antibacterial, antiparasitic, hepatotropic, antiinflammatory, cytostatic,
XX litholytic, antineumatic, antiarthritic, neuroprotective, antidiabetic,
XX anticoagulant, thrombolytic, antiarteriosclerotic, cardiant, haemostatic,
XX antiarrhythmic, ophthalmological, antiarteriosclerotic, vasotropic,
XX osteopathic, nootropic, antiparkinsonian, anticonvulsant, neuroleptic,
XX vasotropic, cytostatic and gynaecological activities. The polypeptides
XX and polynucleotides of the invention may be useful for diagnosis,
XX detection, treatment and/or prevention of disorders of the liver such as
XX viral, fungal, bacterial or parasitic infections, cirrhosis, Wilson's
XX disease, gastrointestinal disorders, pancreatic disorders, gallbladder
XX diseases, immune disorders, blood related disorders, hyperproliferative
XX disorders, cardiovascular disorders, respiratory disorders,
XX musculoskeletal system disorders, neurological diseases, endocrine
XX disorders, reproductive system disorders or developmental and inherited
XX disorders. The current sequence is that of the human liver-related
XX genomic DNA of the invention. The current sequence is not shown within
XX the specification per se but was obtained electronically from the USPTO
XX web-site.

Query Match 1.4%; Score 44; DB 11; Length 182;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GGGCAGCTGACCTCCAGCTGGGCAAGAGCAAGACTGCTCT 3121
Db 139 GGGCAGCTGACCTCCAGCTGGGCAAGAGCAAGACTGCTCT 182

RESULT 200
AAK87671/C
ID AAK87671 standard; DNA; 307 BP.
XX
AC AAK87671;
XX
DT 07-NOV-2001 (first entry)

XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:42483.
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metatasis; ds.
XX
OS Homo sapiens.
XX
XX WO200157182-A2.
XX
PD 09-AUG-2001.
XX
XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0214886P.
XX 28-JUN-2000; 2000US-0215135P.
XX 30-JUN-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 07-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 14-JUL-2000; 2000US-0218290P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225266P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226881P.
XX 22-AUG-2000; 2000US-0226882P.
XX 22-AUG-2000; 2000US-0227182P.
XX 23-AUG-2000; 2000US-0227189P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 05-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 06-SEP-2000; 2000US-0230438P.
XX 08-SEP-2000; 2000US-0231242P.
XX 08-SEP-2000; 2000US-0231243P.
XX 08-SEP-2000; 2000US-0231244P.
XX 08-SEP-2000; 2000US-0231413P.
XX 08-SEP-2000; 2000US-0231414P.
XX 08-SEP-2000; 2000US-0232080P.
XX 08-SEP-2000; 2000US-0232081P.
XX 12-SEP-2000; 2000US-0231968P.
XX 14-SEP-2000; 2000US-0232397P.
XX 14-SEP-2000; 2000US-0232398P.
XX 14-SEP-2000; 2000US-0232399P.
XX 14-SEP-2000; 2000US-0232400P.
XX 14-SEP-2000; 2000US-0232401P.
XX 14-SEP-2000; 2000US-0233063P.
XX 14-SEP-2000; 2000US-0233064P.

PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0234984P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251865P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.

PR 08-DEC-2000; 2000US-0251889P.
PR 08-DEC-2000; 2000US-0251900P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
DR Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 42483; 3071pp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 307 BP; 53 A; 93 C; 69 G; 92 T; 0 U; 0 Other;

Query Match 1.4%; Score 44; DB 4; Length 307;
Best Local Similarity 100.0%; Pred. No. 9.8e-10;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3079 TGGCAGTGCAGCTCGAGCTGGGCAACAGAGCAAGACTCTGTTC 3122
DB 74 TGGCAGTGCAGCTCGAGCTGGGCAACAGAGCAAGACTCTGTTC 31

Search completed: May 11, 2006, 04:27:01
Job time : 1822 secs